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<b>(21) International Application Number:</b> PCT/US99/13181 <b>(22) International Filing Date:</b> 10 June 1999 (10.06.99)  <b>(30) Priority Data:</b> 60/088,877 11 June 1998 (11.06.98) US Not furnished 9 June 1999 (09.06.99) US  <b>(71) Applicant:</b> CHIRON CORPORATION [US/US]; 4560 Horton Street, Emeryville, CA 94608-2916 (US).  <b>(72) Inventors:</b> ASTEL, Jon, H.; 4560 Horton Street, Emeryville, CA 94608-2916 (US). CARROLL, Eddie, III; 4560 Horton Street, Emeryville, CA 94608-2916 (US). ENDEGE, Wilson, O.; 4560 Horton Street, Emeryville, CA 94608-2916 (US). FORD, Donna, M.; 4560 Horton Street, Emeryville, CA 94608-2916 (US). MONAHAN, John, E.; 4560 Horton Street, Emeryville, CA 94608-2916 (US). SCHLEGEL, Robert; 4560 Horton Street, Emeryville, CA 94608-2916 (US). STEINMANN, Kathleen, E.; 4560 Horton Street, Emeryville, CA 94608-2916 (US). ZHANG, Jimmy; 4560 Horton Street, Emeryville, CA 94608-2916 (US).  <b>(74) Agents:</b> BAYNHAM, Robert, J.; Chiron Corporation, Intellectual Property-R338, P.O. Box 8097, Emeryville, CA 94662-8097 (US) et al.		<b>(81) Designated States:</b> AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).  <b>Published</b> <i>Without international search report and to be republished upon receipt of that report.</i>	
<b>(54) Title:</b> GENES AND GENE EXPRESSION PRODUCTS THAT ARE DIFFERENTIALLY REGULATED IN PROSTATE CANCER			
<b>(57) Abstract</b>  This invention relates to novel human genes, to proteins expressed by the genes, and to variants of the proteins. The invention also relates to diagnostic and therapeutic agents related to the genes and proteins, including probes, antisense constructs, and antibodies. The invention further relates to polynucleotides differentially expressed in prostate cancer.			



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## GENES AND GENE EXPRESSION PRODUCTS THAT ARE DIFFERENTIALLY REGULATED IN PROSTATE CANCER

### FIELD OF THE INVENTION

This invention relates to the area of diagnosis, prognosis, and treatment  
5 of cancer, tumor progression, hyperproliferative cell growth, and accompanying  
physical and biological manifestations. More specifically, the invention includes  
polynucleotides that are differentially regulated in prostatic disorders, such as metastatic  
prostate cancer, localized prostate cancer, and benign prostate hyperplasia (BPH).

### BACKGROUND OF THE INVENTION

10 Genes that are up- or down-regulated in cancer or tumor progression are  
useful for therapeutic and diagnostic purposes. For example, detection of genes or gene  
expression products up-regulated in hyperproliferative cells can be a predictive or  
diagnostic marker of the onset or the progression of cancer. Early diagnosis can be  
15 useful if the cancer, tumors, or hyperproliferating cells can be inhibited, removed, or  
terminated to prevent metastasis or recurrence of cancerous growth. Such early warning  
is of particular use to prostate cancer patients, where removal of the growth, tumor, or  
cells is beneficial if the disease is confined to the prostate. There is a need in the art for  
genes related to cancer and tumor progression.

### SUMMARY OF THE INVENTION

20 The present invention provides methods and reagents for diagnosing  
cancer, tumor progression, hyperproliferative cell growth, and accompanying biological  
and physical manifestations. Reagents for such diagnostic kits include:

- (a) polynucleotides comprising a sequence capable of hybridizing to  
one or more of SEQ ID NO:1-339 or complement thereof;
- 25 (b) polypeptides comprising the amino acid sequence encoded by  
any one of SEQ ID NO:1-339; and
- (c) antibodies capable of binding polypeptides comprising the amino  
acid sequence of (b).



The methods of diagnosis of the present invention include both nucleic acid assays and immunoassays.

In another embodiment, the present invention provides both compositions and methods for treating or ameliorating cancer, tumor progression, hyperproliferative cell growth, and accompanying biological and physical manifestations. The compositions for treatment or amelioration include:

- (a) polynucleotides comprising the sequence capable of hybridizing to one or more of the sequences shown in SEQ ID NO:1-339 and complement thereof, including antisense, ribozyme and gene therapy nucleic acid constructs;
- 10 (b) polypeptides comprising the amino acid sequence encoded by any one of SEQ ID NO:1-339; and
- (c) antibodies capable of binding polypeptides of polypeptides comprising the amino acid sequence (b).

Methods of treatment or amelioration include administering compositions of polynucleotides, polypeptides, antibodies, or combinations thereof and can be used

- (a) to inhibit translation and/or transcription;
  - (b) to inhibit biological activity;
  - (c) as a vaccine antigen; and
  - (d) as an immune system inducer.
- 20 Such compositions can be administered systemically or locally to the desired site.

In one embodiment, the present invention provides a composition comprising an isolated polynucleotide selected from the group consisting of

- (a) any one of SEQ ID NOs:2, 5, 49, 50, 99, 100, 115, 116, 118, 130, 131, 140, 144, 145, 146, 157, 158, 159, 163, 164, 165, 166, 177, 178, 180, 211, 212, 213, 218, 219, 220, 221, 229, 232, 233, 242, 243, 248, 249, 254, 256, 257, 259, 272, 273, 277, 288, 289, 292, 293, 316, 317, and 330;
  - (b) a polynucleotide that encodes a variant of the polypeptide encoded by (a); and
  - (c) a polynucleotide encoding a protein expressed by a polynucleotide having the sequence of any one of the sequences of (a).
- 30



Preferably, the nucleic acid obtained from the biological material of part (b) above is genomic DNA or mRNA. The nucleic acid can also be cDNA complementary to the mRNA.

Another embodiment of the invention is the use of the isolated  
5 polynucleotides or parts thereof as diagnostic probes or as primers.

In another embodiment, the present invention provides a composition comprising a polypeptide, wherein said polypeptide is selected from the group consisting of:

(a) a polypeptide encoded by any one of SEQ ID Nos:2, 5, 49, 50,  
10 99, 100, 115, 116, 118, 130, 131, 140, 144, 145, 146, 157, 158, 159, 163, 164, 165, 166, 177, 178, 180, 211, 212, 213, 218, 219, 220, 221, 229, 232, 233, 242, 243, 248, 249, 254, 256, 257, 259, 272, 273, 277, 288, 289, 292, 293, 316, 317, and 330;

(b) a polypeptide encoded by full-length mRNA or cDNA corresponding to any one of SEQ ID NO:1-339; and

15 (c) a variant of the protein (a) or (b);

In certain preferred embodiments, the polynucleotide is operably linked to an expression control sequence. The invention further provides a host cell, including bacterial, yeast, insect and mammalian cells, transformed with the polynucleotide sequence. The invention also provides the full-length cDNA and the full length human  
20 gene corresponding to the polynucleotide.

Protein and polypeptide compositions of the invention may further comprise a pharmaceutically acceptable carrier. Compositions comprising an antibody that specifically reacts with such protein or polypeptide are also provided by the present invention.

25 The invention further relates to a polypeptide or nucleic acid obtained by transforming a host cell with nucleic acid comprising at least one of SEQ ID NO:1-339, culturing the host cell, and recovering the replicated nucleic acid, the expressed RNA, and/or the expressed polypeptide.

#### Brief Description of the Figures

30 Figure 1 provides the open reading frame for clone SL 195.

Figure 2 provides the open reading frame for clone SL 197.



Figure 3 provides the immunohistochemistry staining results for clone SL 5 expression in a variety of normal and tumor tissues.

### Detailed Description of the Invention

Genes that are up- or down-regulated in cancer or tumor progression are useful for therapeutic and diagnostic purposes. For example, a diagnostic assay to determine the stage of the disease also is useful in tailoring treatment of aggressive versus more mild cancer or tumor progression. The polynucleotide sequences and encoded polypeptides of the present invention are useful for these diagnostic or prognostic purposes.

Further, modulation of genes or gene expression products that are mis-regulated can be used to treat or ameliorate cancer, tumor progression, hyperproliferative cell growth, and the accompanying physical and biological manifestations. For example, the polynucleotide sequences provided herein as SEQ ID NO:1-339, can be used to construct the following polynucleotide and polypeptide compositions that are useful for treatment: antisense; ribozymes; antibodies; vaccine antigens; and immune system inducers, to induce dendritic cells, for example.

Identified herein are polynucleotide sequences that are upregulated in a cancer cell line, more specifically in a prostate cancer cell line. Thus, the present invention relates to methods and reagents for diagnosis, and to methods and compositions for treatment.

#### I. Use of Polynucleotides Having a Sequence of One or More of SEQ ID NO:1-339 to Obtain Full-Length cDNA and Full-Length Human Gene and Promoter Region

Full-length cDNA molecules comprising the disclosed sequences are obtained as follows. The polynucleotide or a portion thereof comprising at least 12, 15, 18, or 20 nucleotides is used as a hybridization probe to detect hybridizing members of a cDNA library using probe design methods, cloning methods, and clone selection techniques as described in U.S. Patent No. 5,654,173, "Secreted Proteins and Polynucleotides Encoding Them," incorporated herein by reference. Libraries of cDNA are made from selected tissues, such as normal or tumor tissue, or from tissues of a



mammal treated with, for example, a pharmaceutical agent. Preferably, the tissue is the same as that used to generate the polynucleotides, as both the polynucleotides and the cDNA represent expressed genes. Most preferably, the cDNA library is made from the biological material described herein in the Examples. Alternatively, many cDNA  
5 libraries are available commercially. (Sambrook *et al.*, *Molecular Cloning: A Laboratory Manual*, 2nd Ed. (Cold Spring Harbor Press, Cold Spring Harbor, NY 1989).

Members of the library that are larger than the polynucleotide, and preferably that contain the whole sequence of the native message, are obtained. In order  
10 to confirm that the entire cDNA has been obtained, RNA protection experiments are performed as follows. Hybridization of a full-length cDNA to an mRNA will protect the RNA from RNase degradation. If the cDNA is not full length, then the portions of the mRNA that are not hybridized will be subject to RNase degradation. This is assayed, as is known in the art, by changes in electrophoretic mobility on  
15 polyacrylamide gels, or by detection of released monoribonucleotides. Sambrook *et al.*, *Molecular Cloning: A Laboratory Manual*, 2nd Ed. (Cold Spring Harbor Press, Cold Spring Harbor, NY 1989). In order to obtain additional sequences 5' to the end of a partial cDNA, 5' RACE (PCR Protocols: A Guide to Methods and Applications (Academic Press, Inc. 1990)) is performed.

20 Genomic DNA is isolated using polynucleotides in a manner similar to the isolation of full-length cDNAs. Briefly, the polynucleotides, or portions thereof, are used as probes to libraries of genomic DNA. Preferably, the library is obtained from the cell type that was used to generate the polynucleotides, but this is not essential. Most preferably, the genomic DNA is obtained from the biological material described  
25 herein in the Examples. Such libraries may be in vectors suitable for carrying large segments of a genome, such as P1 or YAC, as described in detail in Sambrook *et al.*, 9.4-9.30. In addition, genomic sequences can be isolated from human BAC libraries, which are commercially available from Research Genetics, Inc., Huntsville, Alabama, USA, for example. In order to obtain additional 5' or 3' sequences, chromosome  
30 walking is performed, as described in Sambrook *et al.*, such that adjacent and



overlapping fragments of genomic DNA are isolated. These are mapped and pieced together, as is known in the art, using restriction digestion enzymes and DNA ligase.

Using the polynucleotides sequences of the invention, corresponding full length genes can be isolated using both classical and PCR methods to construct and probe cDNA libraries. Using either method, Northern blots, preferably, are performed on a number of cell types to determine which cell lines express the gene of interest at the highest rate.

Classical methods of constructing cDNA libraries are taught in Sambrook *et al.*, *supra*. With these methods, cDNA can be produced from mRNA and inserted into viral or expression vectors. Typically, libraries of mRNA comprising poly(A) tails can be produced with poly(T) primers. Similarly, cDNA libraries can be produced using the instant sequences as primers.

PCR methods are used to amplify the members of a cDNA library that comprise the desired insert. In this case, the desired insert will contain sequence from the full length cDNA that corresponds to the instant ESTs. Such PCR methods include gene trapping and RACE methods. Gruber *et al.*, PCT WO 95/04745 and Gruber *et al.*, U.S. Pat. No. 5,500,356. Kits are commercially available to perform gene trapping experiments from, for example, Life Technologies, Gaithersburg, Maryland, USA. PCT Pub. No. WO 97/19110. (Apte and Siebert, *Biotechniques* 15:890-893, 1993; Edwards *et al.*, *Nuc. Acids Res.* 19:5227-5232, 1991).

The promoter region of a gene generally is located 5' to the initiation site for RNA polymerase II, and can be obtained by performing 5' RACE using a primer from the coding region of the gene. Alternatively, the cDNA can be used as a probe for the genomic sequence, and the region 5' to the coding region is identified by "walking up." If the gene is highly expressed or differentially expressed, the promoter from the gene may be of use in a regulatory construct for a heterologous gene.

Once the full-length cDNA or gene is obtained, DNA encoding variants can be prepared by site-directed mutagenesis, described in detail in Sambrook *et al.*, 15.3-15.63. The choice of codon or nucleotide to be replaced can be based on disclosure herein on optional changes in amino acids to achieve altered protein structure and/or function.



As an alternative method to obtaining DNA or RNA from a biological material, nucleic acid comprising nucleotides having the sequence of one or more polynucleotides of the invention can be synthesized. Thus, the invention encompasses nucleic acid molecules ranging in length from 15 nucleotides (corresponding to at least 5 15 contiguous nucleotides of one of SEQ ID NO:1-339) up to a maximum length suitable for one or more biological manipulations, including replication and expression, of the nucleic acid molecule. The invention includes but is not limited to (a) nucleic acid having the size of a full gene, and comprising at least one of SEQ ID NO:1-339; (b) the nucleic acid of (a) also comprising at least one additional gene, operably linked 10 to permit expression of a fusion protein; (c) an expression vector comprising (a) or (b); (d) a plasmid comprising (a) or (b) ; and (e) a recombinant viral particle comprising (a) or (b).

The sequence of a nucleic acid comprising at least 15 contiguous nucleotides of at least any one of SEQ ID NO:1-339, preferably the entire sequence of 15 at least any one of SEQ ID NO:1-339, is not limited and can be any sequence of A, T, G, and/or C (for DNA) and A, U, G, and/or C (for RNA) or modified bases thereof, including inosine and pseudouridine. The choice of sequence will depend on the desired function and can be dictated by coding regions desired, the intron-like regions desired, and the regulatory regions desired.

20 Where the entire sequence of any one of SEQ ID NO:1-339 is within the nucleic acid, the nucleic acid obtained is referred to herein as a polynucleotide comprising the sequence of any one of SEQ ID NO:1-339.

## II. Expression of Polypeptide Encoded by Full-Length cDNA or Full-Length Gene

The polynucleotide, the corresponding cDNA, or the full-length gene is 25 used to express the partial or complete gene product. Appropriate polynucleotide constructs are purified using standard recombinant DNA techniques as described in, for example, Sambrook *et al.*, (1989) *Molecular Cloning: A Laboratory Manual*, 2nd ed. (Cold Spring Harbor Press, Cold Spring Harbor, New York). The polypeptides encoded by the polynucleotides are expressed in any expression system, including, for example,



bacterial, yeast, insect, amphibian and mammalian systems. Suitable vectors and host cells are described in U.S. Patent No. 5,654,173.

Bacteria. Expression systems in bacteria include those described in Chang *et al.*, *Nature* (1978) 275:615, Goeddel *et al.*, *Nature* (1979) 281:544, Goeddel *et al.*, *Nucleic Acids Res.* (1980) 8:4057; EP 0 036,776, U.S. Patent No. 4,551,433, DeBoer *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1983) 80:21-25, and Siebenlist *et al.*, *Cell* (1980) 20:269.

Yeast. Expression systems in yeast include those described in Hinnen *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1978) 75:1929; Ito *et al.*, *J. Bacteriol.* (1983) 153:163; Kurtz *et al.*, *Mol. Cell. Biol.* (1986) 6:142; Kunze *et al.*, *J. Basic Microbiol.* (1985) 25:141; Gleeson *et al.*, *J. Gen. Microbiol.* (1986) 132:3459, Roggenkamp *et al.*, *Mol. Gen. Genet.* (1986) 202:302 Das *et al.*, *J. Bacteriol.* (1984) 158:1165; De Louvencourt *et al.*, *J. Bacteriol.* (1983) 154:737, Van den Berg *et al.*, *Bio/Technology* (1990) 8:135; Kunze *et al.*, *J. Basic Microbiol.* (1985) 25:141; Cregg *et al.*, *Mol. Cell. Biol.* (1985) 5:3376, U.S. Patent Nos. 4,837,148 and 4,929,555; Beach and Nurse, *Nature* (1981) 300:706; Davidow *et al.*, *Curr. Genet.* (1985) 10:380, Gaillardin *et al.*, *Curr. Genet.* (1985) 10:49, Ballance *et al.*, *Biochem. Biophys. Res. Commun.* (1983) 112:284-289; Tilburn *et al.*, *Gene* (1983) 26:205-221, Yelton *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1984) 81:1470-1474, Kelly and Hynes, *EMBO J.* (1985) 4:475479; EP 0 244,234, and WO 91/00357.

Insect Cells. Expression of heterologous genes in insects is accomplished as described in U.S. Patent No. 4,745,051, Friesen *et al.* (1986) "The Regulation of Baculovirus Gene Expression" in: *The Molecular Biology Of Baculoviruses* (W. Doerfler, ed.), EP 0 127,839, EP 0 155,476, and Vlak *et al.*, *J. Gen. Virol.* (1988) 69:765-776, Miller *et al.*, *Ann. Rev. Microbiol.* (1988) 42:177, Carbonell *et al.*, *Gene* (1988) 73:409, Maeda *et al.*, *Nature* (1985) 315:592-594, Lebacq-Verheyden *et al.*, *Mol. Cell. Biol.* (1988) 8:3129; Smith *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1985) 82:8404, Miyajima *et al.*, *Gene* (1987) 58:273; and Martin *et al.*, *DNA* (1988) 7:99. Numerous baculoviral strains and variants and corresponding permissive insect host cells from hosts are described in Luckow *et al.*, *Bio/Technology*



(1988) 6:47-55, Miller *et al.*, Generic Engineering (Setlow, J.K. *et al.* eds.), Vol. 8 (Plenum Publishing, 1986), pp. 277-279, and Maeda *et al.*, *Nature*, (1985) 315:592-594.

Mammalian Cells. Mammalian expression is accomplished as described in Dijkema *et al.*, *EMBO J.* (1985) 4:761, Gorman *et al.*, *Proc. Natl. Acad. Sci. (USA)* 5 (1982) 79:6777, Boshart *et al.*, *Cell* (1985) 41:521 and U.S. Patent No. 4,399,216. Other features of mammalian expression are facilitated as described in Ham and Wallace, *Meth. Enz.* (1979) 58:44, Barnes and Sato, *Anal. Biochem.* (1980) 102:255, U.S. Patent Nos. 4,767,704, 4,657,866, 4,927,762, 4,560,655, WO 90/103430, WO 87/00195, and U.S. RE 30,985.

10 Polynucleotide molecules comprising the polynucleotide sequence are propagated by placing the molecule in a vector. Viral and non-viral vectors are used, including plasmids. The choice of plasmid will depend on the type of cell in which propagation is desired and the purpose of propagation. Certain vectors are useful for amplifying and making large amounts of the desired DNA sequence. Other vectors are  
15 suitable for expression in cells in culture. Still other vectors are suitable for transfer and expression in cells in a whole animal or person. The choice of appropriate vector is well within the skill of the art. Many such vectors are available commercially. The polynucleotide is inserted into a vector typically by means of DNA ligase attachment to a cleaved restriction enzyme site in the vector. Alternatively, the desired nucleotide  
20 sequence may be inserted by homologous recombination in vivo. Typically this is accomplished by attaching regions of homology to the vector on the flanks of the desired nucleotide sequence. Regions of homology are added by ligation of oligonucleotides, or by polymerase chain reaction using primers comprising both the region of homology and a portion of the desired nucleotide sequence, for example.

25 Polynucleotides are linked to regulatory sequences as appropriate to obtain the desired expression properties. These may include promoters (attached either at the 5' end of the sense strand or at the 3' end of the antisense strand), enhancers, terminators, operators, repressors, and inducers. The promoters may be regulated or constitutive. In some situations it may be desirable to use conditionally active  
30 promoters, such as tissue-specific or developmental stage-specific promoters. These are



linked to the desired nucleotide sequence using the techniques described above for linkage to vectors. Any techniques known in the art may be used.

When any of the above host cells, or other appropriate host cells or organisms, are used to replicate and/or express the polynucleotides or nucleic acids of the invention, the resulting replicated nucleic acid, RNA, expressed protein or polypeptide, is within the scope of the invention as a product of the host cell or organism. The product is recovered by any appropriate means known in the art.

Once the gene corresponding to the polypeptide is identified, its expression can be regulated in the cell to which the gene is native. For example, an endogenous gene of a cell can be regulated by an exogenous regulatory sequence as disclosed in U.S. Patent No. 5,641,670, "Protein Production and Protein Delivery."

### Ribozymes

Trans-cleaving catalytic RNAs (ribozymes) are RNA molecules possessing endoribonuclease activity. Ribozymes are specifically designed for a particular target, and the target message must contain a specific nucleotide sequence. They are engineered to cleave any RNA species site-specifically in the background of cellular RNA. The cleavage event renders the mRNA unstable and prevents protein expression. Importantly, ribozymes can be used to inhibit expression of a gene of unknown function for the purpose of determining its function in an in vitro or in vivo context, by detecting the phenotypic effect.

One commonly used ribozyme motif is the hammerhead, for which the substrate sequence requirements are minimal. Design of the hammerhead ribozyme is disclosed in Usman *et al.*, *Current Opin. Struct. Biol.* (1996) 6:527-533. Usman also discusses the therapeutic uses of ribozymes. Ribozymes can also be prepared and used as described in Long *et al.*, *FASEB J.* (1993) 7:25; Symons, *Ann. Rev. Biochem.* (1992) 61:641; Perrotta *et al.*, *Biochem.* (1992) 31:16-17; Ojwang *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1992) 89:10802-10806; and U.S. Patent No. 5,254,678. Ribozyme cleavage of HIV-I RNA is described in U.S. Patent No. 5,144,019; methods of cleaving RNA using ribozymes is described in U.S. Patent No. 5,116,742; and methods for increasing the specificity of ribozymes are described in U.S. Patent No. 5,225,337 and Koizumi *et al.*,



*Nucleic Acid Res.* (1989) 17:7059-7071. Preparation and use of ribozyme fragments in a hammerhead structure are also described by Koizumi *et al.*, *Nucleic Acids Res.* (1989) 17:7059-7071. Preparation and use of ribozyme fragments in a hairpin structure are described by Chowrira and Burke, *Nucleic Acids Res.* (1992) 20:2835. Ribozymes can  
5 also be made by rolling transcription as described in Daubendiek and Kool, *Nat. Biotechnol.* (1997) 15(3):273-277.

The hybridizing region of the ribozyme may be modified or may be prepared as a branched structure as described in Horn and Urdea, *Nucleic Acids Res.* (1989) 17:6959-67. The basic structure of the ribozymes may also be chemically  
10 altered in ways familiar to those skilled in the art, and chemically synthesized ribozymes can be administered as synthetic oligonucleotide derivatives modified by monomeric units. In a therapeutic context, liposome mediated delivery of ribozymes improves cellular uptake, as described in Birikh *et al.*, *Eur. J. Biochem.* (1997) 245:1-16.

15 Therapeutic and functional genomic applications of ribozymes proceed beginning with knowledge of a portion of the coding sequence of the gene to be inhibited. Thus, for many genes, a polynucleotide sequence as disclosed herein provides adequate sequence for constructing an effective ribozyme. A target cleavage site is selected in the target sequence, and a ribozyme is constructed based on the 5' and  
20 3' nucleotide sequences that flank the cleavage site. Retroviral vectors are engineered to express monomeric and multimeric hammerhead ribozymes targeting the mRNA of the target coding sequence. These monomeric and multimeric ribozymes are tested in vitro for an ability to cleave the target mRNA. A cell line is stably transduced with the retroviral vectors expressing the ribozymes, and the transduction is confirmed by  
25 Northern blot analysis and reverse-transcription polymerase chain reaction (RT-PCR). The cells are screened for inactivation of the target mRNA by such indicators as reduction of expression of disease markers or reduction of the gene product of the target mRNA.



### Antisense

Antisense nucleic acids are designed to specifically bind to RNA, resulting in the formation of RNA-DNA or RNA-RNA hybrids, with an arrest of DNA replication, reverse transcription or messenger RNA translation. Antisense polynucleotides based on a selected sequence can interfere with expression of the corresponding gene. Antisense polynucleotides are typically generated within the cell by expression from antisense constructs that contain the antisense EST strand as the transcribed strand. Antisense polynucleotides will bind and/or interfere with the translation of the corresponding mRNA. The expression products of control cells and cells treated with the antisense construct are compared to detect the protein product of the gene corresponding to the polynucleotide. The protein is isolated and identified using routine biochemical methods.

Antisense therapy for a variety of cancers is in clinical phase and has been discussed extensively in the literature. Reed reviewed antisense therapy directed at the Bcl-2 gene in tumors; gene transfer-mediated overexpression of Bcl-2 in tumor cell lines conferred resistance to many types of cancer drugs. (Reed, J.C., *N.C.I.* (1997) 89:988-990). The potential for clinical development of antisense inhibitors of *ras* is discussed by Cowser, L.M., *Anti-Cancer Drug Design* (1997) 12:359-371. Additional important antisense targets include leukemia (Geurtz, A.M., *Anti-Cancer Drug Design* (1997) 12:341-358); human C-ref kinase (Monia, B.P., *Anti-Cancer Drug Design* (1997) 12:327-339); and protein kinase C (McGraw *et al.*, *Anti-Cancer Drug Design* (1997) 12:315-326).

Given the extensive background literature and clinical experience in antisense therapy, one skilled in the art can use selected polynucleotides of the invention as additional potential therapeutics. The choice of polynucleotide can be narrowed by first testing them for binding to "hot spot" regions of the genome of cancerous cells. If a polynucleotide is identified as binding to a "hot spot", testing the polynucleotide as an antisense compound in the corresponding cancer cells clearly is warranted.

Ogunbiyi *et al.*, *Gastroenterology* (1997) 113(3):761-766 describe prognostic use of allelic loss in colon cancer; Barks *et al.*, *Genes, Chromosomes, and*



*Cancer* (1997) 19(4):278-285 describe increased chromosome copy number detected by FISH in malignant melanoma; Nishizake *et al.*, *Genes, Chromosomes, and Cancer* (1997) 19(4):267-272 describe genetic alterations in primary breast cancer and their metastases and direct comparison using modified comparative genome hybridization; and Elo *et al.*, *Cancer Research* (1997) 57(16):3356-3359 disclose that loss of heterozygosity at 16z24.1-q24.2 is significantly associated with metastatic and aggressive behavior of prostate cancer.

#### Dominant Negative Mutations

Dominant negative mutations are readily generated for corresponding proteins that are active as homomultimers. A mutant polypeptide will interact with wild-type polypeptides (made from the other allele) and form a non-functional multimer. Thus, a mutation is in a substrate-binding domain, a catalytic domain, or a cellular localization domain. Preferably, the mutant polypeptide will be overproduced. Point mutations are made that have such an effect. In addition, fusion of different polypeptides of various lengths to the terminus of a protein can yield dominant negative mutants. General strategies are available for making dominant negative mutants. See Herskowitz, *Nature* (1987) 329:219-222. Such a technique can be used for creating a loss of function mutation, which is useful for determining the function of a protein.

#### Identification of Secreted and Membrane-Bound Polypeptides

Both secreted and membrane-bound polypeptides of the present invention are of interest. For example, levels of secreted polypeptides can be assayed conveniently in body fluids, such as blood, urine, prostatic fluid and semen. Membrane-bound polypeptides are useful for constructing vaccine antigens or inducing an immune response. Such antigens would comprise all or part of the extracellular region of the membrane-bound polypeptides.

Because both secreted and membrane-bound polypeptides comprise a fragment of contiguous hydrophobic amino acids, hydrophobicity predicting algorithms can be used to identify such polypeptides.

A signal sequence is usually encoded by both secreted and membrane-bound polypeptide genes to direct a polypeptide to the surface of the cell. The signal



sequence usually comprises a stretch of hydrophobic residues. Such signal sequences can fold into helical structures.

Membrane-bound polypeptides typically comprise at least one transmembrane region that possesses a stretch of hydrophobic amino acids that can transverse the membrane. Some transmembrane regions also exhibit a helical structure.

Hydrophobic fragments within a polypeptide can be identified by using computer algorithms. Such algorithms include Hopp & Woods, Proc. Natl. Acad. Sci. USA **78**: 3824-3828 (1981); Kyte & Doolittle, J. Mol. Biol. **157**: 105-132 (1982); and RAOAR algorithm, Degli Esposti *et al.*, Eur. J. Biochem. **190**: 207-219 (1990).

Another method of identifying secreted and membrane-bound polypeptides is to translate the present polynucleotides, SEQ ID NO:1-339, in all six frames and determine if at least 8 contiguous hydrophobic amino acids are present. Those translated polypeptides with at least 8; more typically, 10; even more typically, 12 contiguous hydrophobic amino acids are considered to be either a putative secreted or membrane bound polypeptide. Hydrophobic amino acids include alanine, glycine, histidine, isoleucine, leucine, lysine, methionine, phenylalanine, proline, threonine, tryptophan, tyrosine, and valine.

Putative secreted and/or membrane-bound polypeptides are encoded by the sequences of the following clones: SL-5, SL-6, SL-9, SL-11, SL-13, SL-90, SL-100, SL-107, SL-124, SL-135, SL-139, SL-143, SL-152, SL-153, SL-173, and SL-177.

#### Construction of Polypeptides of the Invention and Variants Thereof

The polypeptides of the invention include those encoded by the disclosed polynucleotides. These polypeptides can also be encoded by nucleic acids that, by virtue of the degeneracy of the genetic code, are not identical in sequence to the disclosed polynucleotides. Thus, the invention includes within its scope nucleic acids comprising polynucleotides encoding a protein or polypeptide expressed by a polynucleotide having the sequence of any one of SEQ ID NO:1-339. Also within the scope of the invention are variants; variants of polypeptides include mutants, fragments, and fusions. Mutants can include amino acid substitutions, additions or deletions. The amino acid substitutions can be conservative amino acid substitutions or substitutions to



eliminate non-essential amino acids, such as to alter a glycosylation site, a phosphorylation site or an acetylation site, or to minimize misfolding by substitution or deletion of one or more cysteine residues that are not necessary for function. Conservative amino acid substitutions are those that preserve the general charge, hydrophobicity/hydrophilicity, and/or steric bulk of the amino acid substituted. For example, substitutions between the following groups are conservative: Gly/Ala, Val/Ile/Leu, Asp/Glu, Lys/Arg, Asn/Gln, Ser/Cys, Thr, and Phe/Trp/Tyr.

Cysteine-depleted muteins are variants within the scope of the invention. These variants can be constructed according to methods disclosed in U.S. Patent No. 4,959,314, "Cysteine-Depleted Muteins of Biologically Active Proteins." The patent discloses how to substitute other amino acids for cysteines, and how to determine biological activity and effect of the substitution. Such methods are suitable for proteins according to this invention that have cysteine residues suitable for such substitutions, for example to eliminate disulfide bond formation.

The protein variants described herein are encoded by polynucleotides that are within the scope of the invention. The genetic code can be used to select the appropriate codons to construct the corresponding variants.

The invention encompasses polynucleotide sequences having at least 65% sequence identity to any one of SEQ ID NOs:1-339 as determined by the Smith-Waterman homology search algorithm as implemented in MSPRCH program (Oxford Molecular) using an affine gap search with the following search parameters: gap open penalty of 12, and gap extension penalty of 1.

#### Use of the Polynucleotides as Probes, in Mapping, and in Tissue Profiling

##### Probes

Polynucleotide probes comprising at least 12 contiguous nucleotides selected from the nucleotide sequence of a polynucleotide of SEQ ID NO:1-339 are used for a variety of purposes, including identification of human chromosomes and determining transcription levels.

The nucleotide probes are labeled, for example, with a radioactive, fluorescent, biotinylated, or chemiluminescent label, and detected by well known



methods appropriate for the particular label selected. Protocols for hybridizing nucleotide probes to preparations of metaphase chromosomes are also well known in the art. A nucleotide probe will hybridize specifically to nucleotide sequences in the chromosome preparations which are complementary to the nucleotide sequence of the probe. A probe that hybridizes specifically to a polynucleotide should provide a detection signal at least 5-, 10-, or 20-fold higher than the background hybridization provided with other unrelated sequences.

In a non-limiting example, commercial programs are available for identifying regions of chromosomes commonly associated with disease, such as cancer. Polynucleotides of the invention can be used to probe these regions. For example, if through profile searching a polynucleotide is identified as corresponding to a gene encoding a kinase, its ability to bind to a cancer-related chromosomal region will suggest its role as a kinase in one or more stages of tumor cell development/growth. Although some experimentation would be required to elucidate the role, the polynucleotide constitutes a new material for isolating a specific protein that has potential for developing a cancer diagnostic or therapeutic.

Nucleotide probes are used to detect expression of a gene corresponding to the polynucleotide. For example, in Northern blots, mRNA is separated electrophoretically and contacted with a probe. A probe is detected as hybridizing to an mRNA species of a particular size. The amount of hybridization is quantitated to determine relative amounts of expression, for example under a particular condition. Probes are also used to detect products of amplification by polymerase chain reaction. The products of the reaction are hybridized to the probe and hybrids are detected. Probes are used for in situ hybridization to cells to detect expression. Probes can also be used in vivo for diagnostic detection of hybridizing sequences. Probes are typically labeled with a radioactive isotope. Other types of detectable labels may be used such as chromophores, fluors, and enzymes.

Expression of specific mRNA can vary in different cell types and can be tissue specific. This variation of mRNA levels in different cell types can be exploited with nucleic acid probe assays to determine tissue types. For example, PCR, branched DNA probe assays, or blotting techniques utilizing nucleic acid probes substantially



identical or complementary to polynucleotides listed in the Sequence Listing can determine the presence or absence of cDNA or mRNA related to the polynucleotides of the invention.

5 Examples of a nucleotide hybridization assay are described in Urdea *et al.*, PCT WO92/02526 and Urdea *et al.*, U.S. Patent No. 5,124,246, both incorporated herein by reference. The references describe an example of a sandwich nucleotide hybridization assay.

Alternatively, the Polymerase Chain Reaction (PCR) is another means for detecting small amounts of target nucleic acids, as described in Mullis *et al.*, *Meth. Enzymol.* (1987) 155:335-350; U.S. Patent No. 4,683,195; and U.S. Patent No. 4,683,202, all incorporated herein by reference. Two primer polynucleotides nucleotides hybridize with the target nucleic acids and are used to prime the reaction. The primers may be composed of sequence within or 3' and 5' to the polynucleotides of the Sequence Listing. Alternatively, if the primers are 3' and 5' to these polynucleotides, 15 they need not hybridize to them or the complements. A thermostable polymerase creates copies of target nucleic acids from the primers using the original target nucleic acids as a template. After a large amount of target nucleic acids is generated by the polymerase, it is detected by methods such as Southern blots. When using the Southern blot method, the labeled probe will hybridize to a polynucleotide of the Sequence 20 Listing or complement.

Furthermore, mRNA or cDNA can be detected by traditional blotting techniques described in Sambrook *et al.*, "Molecular Cloning: A Laboratory Manual" (New York, Cold Spring Harbor Laboratory, 1989). mRNA or cDNA generated from mRNA using a polymerase enzyme can be purified and separated using gel 25 electrophoresis. The nucleic acids on the gel are then blotted onto a solid support, such as nitrocellulose. The solid support is exposed to a labeled probe and then washed to remove any unhybridized probe. Next, the duplexes containing the labeled probe are detected. Typically, the probe is labeled with radioactivity.



### Mapping

Polynucleotides of the present invention are used to identify a chromosome on which the corresponding gene resides. Using fluorescence in situ hybridization (FISH) on normal metaphase spreads, comparative genomic hybridization  
5 allows total genome assessment of changes in relative copy number of DNA sequences. See Schwartz and Samad, *Current Opinions in Biotechnology* (1994) 8:70-74; Kallioniemi *et al.*, *Seminars in Cancer Biology* (1993) 4:41-46; Valdes and Tagle, *Methods in Molecular Biology* (1997) 68:1, Boultonwood, ed., Human Press, Totowa, NJ.

Preparations of human metaphase chromosomes are prepared using  
10 standard cytogenetic techniques from human primary tissues or cell lines. Nucleotide probes comprising at least 12 contiguous nucleotides selected from the nucleotide sequence shown in the Sequence Listing are used to identify the corresponding chromosome. The nucleotide probes are labeled, for example, with a radioactive, fluorescent, biotinylated, or chemiluminescent label, and detected by well known  
15 methods appropriate for the particular label selected. Protocols for hybridizing nucleotide probes to preparations of metaphase chromosomes are also well known in the art. A nucleotide probe will hybridize specifically to nucleotide sequences in the chromosome preparations that are complementary to the nucleotide sequence of the probe. A probe that hybridizes specifically to a polynucleotide-related gene provides a  
20 detection signal at least 5-, 10-, or 20-fold higher than the background hybridization provided with non-EST coding sequences.

Polynucleotides are mapped to particular chromosomes using, for example, radiation hybrids or chromosome-specific hybrid panels. See Leach *et al.*, *Advances in Genetics*, (1995) 33:63-99; Walter *et al.*, *Nature Genetics* (1994) 7:22-28;  
25 Walter and Goodfellow, *Trends in Genetics* (1992) 9:352. Such mapping can be useful in identifying the function of the polynucleotide-related gene by its proximity to other genes with known function. Function can also be assigned to the related gene when particular syndromes or diseases map to the same chromosome.

### Tissue Profiling

30 The polynucleotides of the present invention can be used to determine the tissue type from which a given sample is derived. For example, a metastatic lesion



is identified by its developmental organ or tissue source by identifying the expression of a particular marker of that organ or tissue. If a polynucleotide is expressed only in a specific tissue type, and a metastatic lesion is found to express that polynucleotide, then the developmental source of the lesion has been identified. Expression of a particular polynucleotide is assayed by detection of either the corresponding mRNA or the protein product. Immunological methods, such as antibody staining, are used to detect a particular protein product. Hybridization methods may be used to detect particular mRNA species, including but not limited to in situ hybridization and Northern blotting.

#### Use of Polymorphisms

A polynucleotide will be useful in forensics, genetic analysis, mapping, and diagnostic applications if the corresponding region of a gene is polymorphic in the human population. A particular polymorphic form of the polynucleotide may be used to either identify a sample as deriving from a suspect or rule out the possibility that the sample derives from the suspect. Any means for detecting a polymorphism in a gene are used, including but not limited to electrophoresis of protein polymorphic variants, differential sensitivity to restriction enzyme cleavage, and hybridization to an allele-specific probe.

#### Use of Polynucleotides to Raise Antibodies

Expression products of a polynucleotide, the corresponding mRNA or cDNA, or the corresponding complete gene are prepared and used for raising antibodies for experimental, diagnostic, and therapeutic purposes. The polynucleotide or related cDNA is expressed as described above, and antibodies are prepared. These antibodies are specific to an epitope on the polynucleotide-encoded polypeptide, and can precipitate or bind to the corresponding native protein in a cell or tissue preparation or in a cell-free extract of an in vitro expression system.

Immunogens for raising antibodies are prepared by mixing the polypeptides encoded by the polynucleotide of the present invention with adjuvants. Alternatively, polypeptides are made as fusion proteins to larger immunogenic proteins. Polypeptides are also covalently linked to other larger immunogenic proteins, such as keyhole limpet hemocyanin. Immunogens are typically administered intradermally,



subcutaneously, or intramuscularly. Immunogens are administered to experimental animals such as rabbits, sheep, and mice, to generate antibodies. Optionally, the animal spleen cells are isolated and fused with myeloma cells to form hybridomas which secrete monoclonal antibodies. Such methods are well known in the art. According to  
5 another method known in the art, the polynucleotide is administered directly, such as by intramuscular injection, and expressed in vivo. The expressed protein generates a variety of protein-specific immune responses, including production of antibodies, comparable to administration of the protein.

Preparations of polyclonal and monoclonal antibodies specific for  
10 polynucleotide-encoded proteins and polypeptides are made using standard methods known in the art. The antibodies specifically bind to epitopes present in the polypeptides encoded by polynucleotides disclosed in the Sequence Listing. Typically, at least 6, 8, 10, or 12 contiguous amino acids are required to form an epitope. However, epitopes which involve non-contiguous amino acids may require more, for  
15 example at least 15, 25, or 50 amino acids. A short sequence of a polynucleotide may then be unsuitable for use as an epitope to raise antibodies for identifying the corresponding novel protein, because of the potential for cross-reactivity with a known protein. However, the antibodies may be useful for other purposes, particularly if they identify common structural features of a known protein and a novel polypeptide  
20 encoded by a polynucleotide of the invention.

Antibodies that specifically bind to human polynucleotide-encoded polypeptides should provide a detection signal at least 5-, 10-, or 20-fold higher than a detection signal provided with other proteins when used in Western blots or other immunochemical assays. Preferably, antibodies that specifically bind polypeptides do  
25 not detect other proteins in immunochemical assays and can immunoprecipitate EST-encoded proteins from solution. For such immunoassays, any type of samples can be used, including tissue, organs, cells, urine, blood, prostatic fluid or semen.

Of interest are antibodies to the secreted polypeptides encoded by the present polynucleotide sequences, SEQ ID NO:1-339. Antibodies to secreted  
30 polypeptides can be used to test body fluids, such as blood, urine, prostatic fluid and semen.



To test for the presence of serum antibodies to the polypeptide in a human population, human antibodies are purified by methods well known in the art. Preferably, the antibodies are affinity purified by passing antiserum over a column to which a protein, polypeptide, or fusion protein is bound. The bound antibodies can then  
5 be eluted from the column, for example using a buffer with a high salt concentration.

In addition to the antibodies discussed above, genetically engineered antibody derivatives are made, such as single chain antibodies or humanized antibodies.

Antibodies to the polypeptides encoded by one or more of SEQ ID NO:1-339 also are contemplated for therapeutic compositions and uses. For example,  
10 antibodies directed to membrane-bound polypeptides that are up-regulated in cancer, tumor progression, hyperproliferative growth, and/or accompanying biological or physical manifestations can be constructed. Antibodies can provide a useful therapeutic in inhibiting cell growth or inducing an immune reaction to cancer, tumor, or hyperproliferating cells. Typically, such antibodies are directed the extracellular  
15 regions of the membrane-bound polypeptide. The borders of such regions can be determined by identifying the location of the hydrophobic transmembrane fragment(s) in the encoded polypeptides of the present invention.

Exemplary antibodies were prepared using two sequences from clone SL-5:  $\text{H}_2\text{N-CGPRLPSFPCPTHEPSTGQLSK-CONH}_2$  and  $\text{H}_2\text{N-CKDSQGLSDFKR-}$   
20  $\text{NSRTTTRRSYKCCONH}_2$ . Using polyclonal antibodies raised against a mixture of these polypeptides, immunohistochemistry was performed on a variety of tumor tissues and corresponding normal tissue. The results are shown in Figure 3, and discussed in the Examples. These polypeptides are useful for detecting a higher level of expression of clone SL-5 in tumor tissues.

## 25 Use of Polynucleotides to Construct Arrays for Diagnostics

The present polynucleotide sequences and gene products are useful for determining the occurrence of cancer, tumor progression, hyperproliferative growth, and/or accompanying biological or physical manifestations. Specifically, the polynucleotides and encoded polypeptides of the instant invention can be utilized to



determine the occurrence of prostatic disorders, such as BPH or localized prostate cancer.

A number of prostatic disorders exist, including adenocarcinoma, BPH, histologic prostate cancer, prostatic intraepithelial neoplasia, clinical prostate cancer, incidental prostate cancer, and localized prostate cancer. BPH is a common prostatic disorder in men which becomes clinically manifest usually after age fifty. In BPH, hyperplastic growth of prostatic cells in the periurethral glandular tissue in the central zone of the prostate gland cause an enlarged prostate which can compress or elongate the urethra and produce symptoms of urethral obstruction that may progress to urinary retention or to a constellation of symptoms known as prostatism. A host of physical manifestations can accompany prostatic disorders including: impotency, reduced urinary flow, hesitancy in initiating voiding, postvoid dribbling, a sensation of incomplete bladder emptying, and development of bladder or high urinary tract infections.

To determine the occurrence of cancer, tumor progression, hyperproliferative growth, and/or accompanying biological or physical manifestations, the levels of polynucleotides and/or encoded polypeptides of the present invention in a sample are compared to the levels in a normal control of body tissues, cells, organs, or fluids. The normal control can include a pool of cells from a particular organ or tissue or tissues and/or cells from throughout the body. Either the immunoassays described above or the nucleic acid assays described below can be used for such measurements.

Any observed difference between the sample and normal control can indicate the occurrence of disease or disorder. Typically, if the levels of the polynucleotides and the encoded polypeptides of the present invention are higher than those found in the normal control, the results indicate the occurrence of cancer, tumor progression, hyperproliferative growth, and/or accompanying biological or physical manifestations.

In addition, the present polynucleotides can be useful to diagnose the severity as well as the occurrence of cancer, tumor progression, hyperproliferative growth, and/or accompanying biological or physical manifestations, including prostatic disorders. For example, the greater the difference observed in the sample versus the



normal control of the present polynucleotides or encoded polypeptides, the greater the severity of the disorder, in particular, when higher levels as compared to a normal control are observed.

5 The present polynucleotides, as shown in SEQ ID NO:1-339, were expressed at higher levels in a prostate cancer cell line versus a normal prostate epithelial cell line.

Polynucleotide arrays provide a high throughput technique that can assay a large number of polynucleotide sequences in a sample. This technology can be used as a diagnostic and as a tool to test for differential expression to determine function of  
10 an encoded protein.

To create arrays, polynucleotide probes are spotted onto a substrate in a two-dimensional matrix or array. Samples of polynucleotides can be labeled and then hybridized to the probes. Double stranded polynucleotides, comprising the labeled sample polynucleotides bound to probe polynucleotides, can be detected once the  
15 unbound portion of the sample is washed away.

The probe polynucleotides can be spotted on substrates including glass, nitrocellulose, etc. The probes can be bound to the substrate by either covalent bonds or by non-specific interactions, such as hydrophobic interactions. The sample polynucleotides can be labeled using radioactive labels, fluorophors, etc.

20 Techniques for constructing arrays and methods of using these arrays are described in EP No. 0 799 897; PCT No. WO 97/29212; PCT No. WO 97/27317; EP No. 0 785 280; PCT No. WO 97/02357; U.S. Pat. No. 5,593,839; U.S. Pat. No. 5,578,832; EP No. 0 728 520; U.S. Pat. No. 5,599,695; EP No. 0 721 016; U.S. Pat. No. 5,556,752; PCT No. WO 95/22058; and U.S. Pat. No. 5,631,734.

25 Further, arrays can be used to examine differential expression of genes and can be used to determine gene function. For example, arrays of the instant polynucleotide sequences can be used to determine if any of the EST sequences are differentially expressed between normal cells and cancer cells, for example. High expression of a particular message in a cancer cell, which is not observed in a  
30 corresponding normal cell, can indicate a cancer specific protein.



### Differential Expression

The present invention also provides a method to identify abnormal or diseased tissue in a human. For polynucleotides corresponding to profiles of protein families as described above, the choice of tissue may be dictated by the putative biological function. The expression of a gene corresponding to a specific polynucleotide is compared between a first tissue that is suspected of being diseased and a second, normal tissue of the human. The normal tissue is any tissue of the human, especially those that express the polynucleotide-related gene including, but not limited to, brain, thymus, testis, heart, prostate, placenta, spleen, small intestine, skeletal muscle, pancreas, and the mucosal lining of the colon.

The polynucleotide-related genes in the two tissues are compared by any means known in the art. For example, the two genes are sequenced, and the sequence of the gene in the tissue suspected of being diseased is compared with the gene sequence in the normal tissue. The polynucleotide-related genes, or portions thereof, in the two tissues are amplified, for example using nucleotide primers based on the nucleotide sequence shown in the Sequence Listing, using the polymerase chain reaction. The amplified genes or portions of genes are hybridized to nucleotide probes selected from the same nucleotide sequence shown in the Sequence Listing. A difference in the nucleotide sequence of the polynucleotide-related gene in the tissue suspected of being diseased compared with the normal nucleotide sequence suggests a role of the polynucleotide-encoded proteins in the disease, and provides a lead for preparing a therapeutic agent. The nucleotide probes are labeled by a variety of methods, such as radiolabeling, biotinylation, or labeling with fluorescent or chemiluminescent tags, and detected by standard methods known in the art.

Alternatively, polynucleotide-related mRNA in the two tissues is compared. PolyA<sup>+</sup> RNA is isolated from the two tissues as is known in the art. For example, one of skill in the art can readily determine differences in the size or amount of polynucleotide-related mRNA transcripts between the two tissues using Northern blots and nucleotide probes selected from the nucleotide sequence shown in the Sequence Listing. Increased or decreased expression of an polynucleotide-related mRNA in a tissue sample suspected of being diseased, compared with the expression of



the same polynucleotide-related mRNA in a normal tissue, suggests that the expressed protein has a role in the disease, and also provides a lead for preparing a therapeutic agent.

Any method for analyzing proteins is used to compare two  
5 polynucleotide-encoded proteins from matched samples. The sizes of the proteins in the two tissues are compared, for example, using antibodies of the present invention to detect polynucleotide-encoded proteins in Western blots of protein extracts from the two tissues. Other changes, such as expression levels and subcellular localization, can also be detected immunologically, using antibodies to the corresponding protein. A  
10 higher or lower level of polynucleotide-encoded protein expression in a tissue suspected of being diseased, compared with the same polynucleotide-encoded protein expression level in a normal tissue, is indicative that the expressed protein has a role in the disease, and provides another lead for preparing a therapeutic agent.

Similarly, comparison of polynucleotide gene sequences or of  
15 polynucleotide gene expression products, e.g., mRNA and protein, between a human tissue that is suspected of being diseased and a normal tissue of a human, are used to follow disease progression or remission in the human. Such comparisons of polynucleotide-related genes, mRNA, or protein are made as described above.

For example, increased or decreased expression of the polynucleotide-  
20 related gene in the tissue suspected of being neoplastic can indicate the presence of neoplastic cells in the tissue. The degree of increased expression of the polynucleotide gene in the neoplastic tissue relative to expression of the gene in normal tissue, or differences in the amount of increased expression of the polynucleotide gene in the neoplastic tissue over time, is used to assess the progression of the neoplasia in that  
25 tissue or to monitor the response of the neoplastic tissue to a therapeutic protocol over time. The expression pattern of any two cell types can be compared, such as low and high metastatic tumor cell lines, or cells from tissue which have and have not been exposed to a therapeutic agent.



Screening for Peptide Analogs and Antagonists

Polypeptides encoded by the instant polynucleotides and corresponding full length genes can be used to screen peptide libraries to identify binding partners, such as receptors, from among the encoded polypeptides.

5           Such binding partners can be useful in treating cancer, tumor progression, hyperproliferative cell growth, and/or accompanying biological or physical manifestations. For example, peptides or other compounds that are capable of binding or interacting with membrane-bound polypeptides encoded by one or more of SEQ ID NO:1-339, can be useful as a therapeutic. Also, peptides or other compounds capable of  
10 altering the conformation of any of the encoded polypeptides by one or more of SEQ ID NO:1-339 can inhibit biological activity and be useful as a therapeutic.

A library of peptides may be synthesized following the methods disclosed in U.S. Pat. No. 5,010,175, and in PCT WO91/17823.

Peptide agonists or antagonists are screened using any available method,  
15 such as signal transduction, antibody binding, receptor binding, mitogenic assays, chemotaxis assays, etc. The methods described herein are presently preferred. The assay conditions ideally should resemble the conditions under which the native activity is exhibited *in vivo*, that is, under physiologic pH, temperature, and ionic strength. Suitable agonists or antagonists will exhibit strong inhibition or enhancement of the  
20 native activity at concentrations that do not cause toxic side effects in the subject. Agonists or antagonists that compete for binding to the native polypeptide may require concentrations equal to or greater than the native concentration, while inhibitors capable of binding irreversibly to the polypeptide may be added in concentrations on the order of the native concentration.

25           The end results of such screening and experimentation will be at least one novel polypeptide binding partner, such as a receptor, encoded by a cDNA polynucleotide or gene of the invention, and at least one peptide agonist or antagonist of the novel binding partner. Such agonists and antagonists can be used to modulate, enhance, or inhibit receptor function in cells to which the receptor is native, or in cells  
30 that possess the receptor as a result of genetic engineering. Further, if the novel receptor shares biologically important characteristics with a known receptor,



information about agonist/antagonist binding may help in developing improved agonists/antagonists of the known receptor.

Therapeutics, whether polynucleotide or polypeptide, or small molecule, can be tested, for example, in the mouse tumor assay described in Pei *et al.*, Mol. Endo. 11: 433-441 (1997).

Other models for testing polynucleotides, polypeptides, antibodies, or small molecules useful for treatment include: animal models and cell lines disclosed in Bosland, *Encyclopedia of Cancer*, Volume II, pages 1283 to 1296 (1997) by Academic Press. Other useful cell lines are described in Brothman, *Encyclopedia of Cancer*, Volume II, pages 1303 to 1313 (1997) by Academic Press

#### Pharmaceutical Compositions and Therapeutic Uses

Pharmaceutical compositions can comprise polypeptides, antibodies, or polynucleotides of the claimed invention. The pharmaceutical compositions will comprise a therapeutically effective amount of either polypeptides, antibodies, or polynucleotides of the claimed invention.

The term "therapeutically effective amount" as used herein refers to an amount of a therapeutic agent to treat, ameliorate, or prevent a desired disease or condition, or to exhibit a detectable therapeutic or preventative effect. The effect can be detected by, for example, chemical markers or antigen levels. Therapeutic effects also include reduction in physical symptoms, such as decreased body temperature. The precise effective amount for a subject will depend upon the subject's size and health, the nature and extent of the condition, and the therapeutics or combination of therapeutics selected for administration. Thus, it is not useful to specify an exact effective amount in advance. However, the effective amount for a given situation can be determined by routine experimentation and is within the judgment of the clinician. Specifically, the compositions of the present invention can be used to treat, ameliorate, modulate, or prevent cancer, tumor progression, hyperproliferative cell growth and/or accompanying biological or physical manifestations, including prostatic disorders.



For purposes of the present invention, an effective dose will be from about 0.01 mg/ kg to 50 mg/kg or 0.05 mg/kg to about 10 mg/kg of the polynucleotide, polypeptide or antibody compositions in the individual to which it is administered.

A pharmaceutical composition can also contain a pharmaceutically acceptable carrier. The term "pharmaceutically acceptable carrier" refers to a carrier for administration of a therapeutic agent, such as antibodies or a polypeptide, genes, and other therapeutic agents. The term refers to any pharmaceutical carrier that does not itself induce the production of antibodies harmful to the individual receiving the composition, and which may be administered without undue toxicity. Suitable carriers may be large, slowly metabolized macromolecules such as proteins, polysaccharides, polylactic acids, polyglycolic acids, polymeric amino acids, amino acid copolymers, and inactive virus particles. Such carriers are well known to those of ordinary skill in the art.

Pharmaceutically acceptable salts can be used therein, for example, mineral acid salts such as hydrochlorides, hydrobromides, phosphates, sulfates, and the like; and the salts of organic acids such as acetates, propionates, malonates, benzoates, and the like. A thorough discussion of pharmaceutically acceptable excipients is available in *Remington's Pharmaceutical Sciences* (Mack Pub. Co., N.J. 1991).

Pharmaceutically acceptable carriers in therapeutic compositions may contain liquids such as water, saline, glycerol and ethanol. Additionally, auxiliary substances, such as wetting or emulsifying agents, pH buffering substances, and the like, may be present in such vehicles. Typically, the therapeutic compositions are prepared as injectables, either as liquid solutions or suspensions; solid forms suitable for solution in, or suspension in, liquid vehicles prior to injection may also be prepared. Liposomes are included within the definition of a pharmaceutically acceptable carrier.

#### Delivery Methods

Once formulated, the polynucleotide compositions of the invention can be (1) administered directly to the subject; (2) delivered ex vivo, to cells derived from the subject; or (3) delivered in vitro for expression of recombinant proteins.



Direct delivery of the compositions will generally be accomplished by injection, either subcutaneously, intraperitoneally, intravenously or intramuscularly, or delivered to the interstitial space of a tissue. The compositions can also be administered into a tumor or lesion. Other modes of administration include oral and pulmonary administration, suppositories, and transdermal applications, needles, and gene guns or hyposprays. Dosage treatment may be a single dose schedule or a multiple dose schedule.

Methods for the ex vivo delivery and reimplantation of transformed cells into a subject are known in the art and described in e.g., International Publication No. WO 93/14778. Examples of cells useful in ex vivo applications include, for example, stem cells, particularly hematopoietic, lymph cells, macrophages, dendritic cells, or tumor cells.

Generally, delivery of nucleic acids for both ex vivo and in vitro applications can be accomplished by, for example, dextran-mediated transfection, calcium phosphate precipitation; polybrene mediated transfection, protoplast fusion, electroporation, encapsulation of the polynucleotide(s) in liposomes, and direct microinjection of the DNA into nuclei, all well known in the art.

If a polynucleotide-related gene correlates with a proliferative disorder, such as neoplasia, dysplasia, and hyperplasia, the disorder may be amenable to treatment by administration of a therapeutic agent based on the polynucleotide or corresponding polypeptide.

Preparation of antisense polypeptides is discussed above. Neoplasias that are treated with the antisense composition include, but are not limited to, cervical cancers, melanomas, colorectal adenocarcinomas, Wilms' tumor, retinoblastoma, sarcomas, myosarcomas, lung carcinomas, leukemias, such as chronic myelogenous leukemia, promyelocytic leukemia, monocytic leukemia, and myeloid leukemia, and lymphomas, such as histiocytic lymphoma. Proliferative disorders that are treated with the therapeutic composition include disorders such as anhydric hereditary ectodermal dysplasia, congenital alveolar dysplasia, epithelial dysplasia of the cervix, fibrous dysplasia of bone, and mammary dysplasia. Hyperplasias, for example, endometrial, adrenal, breast, prostate, or thyroid hyperplasias or pseudoepitheliomatous hyperplasia



of the skin, are treated with antisense therapeutic compositions. Even in disorders in which mutations in the corresponding gene are not implicated, downregulation or inhibition of gene expression can have therapeutic application. For example, decreasing gene expression can help to suppress tumors in which enhanced expression of the gene is implicated.

Both the dose of the antisense composition and the means of administration are determined based on the specific qualities of the therapeutic composition, the condition, age, and weight of the patient, the progression of the disease, and other relevant factors. Administration of the therapeutic antisense agents of the invention includes local or systemic administration, including injection, oral administration, particle gun or catheterized administration, and topical administration. Preferably, the therapeutic antisense composition contains an expression construct comprising a promoter and a polynucleotide segment of at least 12, 22, 25, 30, or 35 contiguous nucleotides of the antisense strand. Within the expression construct, the polynucleotide segment is located downstream from the promoter, and transcription of the polynucleotide segment initiates at the promoter.

Various methods are used to administer the therapeutic composition directly to a specific site in the body. For example, a small metastatic lesion is located and the therapeutic composition injected several times in several different locations within the body of tumor. Alternatively, arteries which serve a tumor are identified, and the therapeutic composition injected into such an artery, in order to deliver the composition directly into the tumor. A tumor that has a necrotic center is aspirated and the composition injected directly into the now empty center of the tumor. The antisense composition is directly administered to the surface of the tumor, for example, by topical application of the composition. X-ray imaging is used to assist in certain of the above delivery methods.

Receptor-mediated targeted delivery of therapeutic compositions containing an antisense polynucleotide, subgenomic polynucleotides, or antibodies to specific tissues is also used. Receptor-mediated DNA delivery techniques are described in, for example, Findeis *et al.*, *Trends in Biotechnol.* (1993) 11:202-205; Chiou *et al.*, (1994) *Gene Therapeutics: Methods And Applications Of Direct Gene Transfer* (J.A.



Wolff, ed.); Wu & Wu, *J. Biol. Chem.* (1988) 263:621-24; Wu *et al.*, *J. Biol. Chem.* (1994) 269:542-46; Zenke *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1990) 87:3655-59; Wu *et al.*, *J. Biol. Chem.* (1991) 266:339-42. Preferably, receptor-mediated targeted delivery of therapeutic compositions containing antibodies of the invention is used to  
5 deliver the antibodies to specific tissue.

Therapeutic compositions containing antisense subgenomic polynucleotides are administered in a range of about 100 ng to about 200 mg of polynucleotides for local administration in a gene therapy protocol. Concentration ranges of about 500 ng to about 50 mg, about 1  $\mu$ g to about 2 mg, about 5  $\mu$ g to about  
10 500  $\mu$ g, and about 20  $\mu$ g to about 100  $\mu$ g of polynucleotides can also be used during a gene therapy protocol. Factors such as method of action and efficacy of transformation and expression are considerations which will affect the dosage required for ultimate efficacy of the antisense subgenomic polynucleotides. Where greater expression is desired over a larger area of tissue, larger amounts of EST antisense subgenomic  
15 polynucleotides or the same amounts readministered in a successive protocol of administrations, or several administrations to different adjacent or close tissue portions of, for example, a tumor site, may be required to effect a positive therapeutic outcome. In all cases, routine experimentation in clinical trials will determine specific ranges for optimal therapeutic effect. A more complete description of gene therapy vectors,  
20 especially retroviral vectors, is contained in U.S. Serial No. 08/869,309, which is expressly incorporated herein, and in section G below.

For genes encoding polypeptides or proteins with anti-inflammatory activity, suitable use, doses, and administration are described in U.S. Patent No. 5,654,173, incorporated herein by reference. Therapeutic agents also include antibodies  
25 to proteins and polypeptides, as described in U.S. Patent No. 5,654,173.

### Gene Therapy

The therapeutic polynucleotides and polypeptides of the present invention may be utilized in gene delivery vehicles. The gene delivery vehicle may be of viral or non-viral origin (see generally, Jolly, *Cancer Gene Therapy* (1994) 1:51-64;  
30 Kimura, *Human Gene Therapy* (1994) 5:845-852; Connelly, *Human Gene Therapy*



(1995) 1:185-193; and Kaplitt, *Nature Genetics* (1994) 6:148-153). Gene therapy vehicles for delivery of constructs including a coding sequence of a therapeutic of the invention can be administered either locally or systemically. These constructs can utilize viral or non-viral vector approaches. Expression of such coding sequences can be induced using endogenous mammalian or heterologous promoters. Expression of the coding sequence can be either constitutive or regulated.

The present invention can employ recombinant retroviruses which are constructed to carry or express a selected nucleic acid molecule of interest. Retrovirus vectors that can be employed include those described in EP 0 415 731; WO 90/07936; WO 94/03622; WO 93/25698; WO 93/25234; U.S. Patent No. 5, 219,740; WO 93/11230; WO 93/10218; Vile and Hart, *Cancer Res.* (1993) 53:3860-3864; Vile and Hart, *Cancer Res.* (1993) 53:962-967; Ram et al., *Cancer Res.* (1993) 53:83-88; Takamiya et al., *J. Neurosci. Res.* (1992) 33:493-503; Baba et al., *J. Neurosurg.* (1993) 79:729-735; U.S. Patent no. 4,777,127; GB Patent No. 2,200,651; and EP 0 345 242. Preferred recombinant retroviruses include those described in WO 91/02805.

Packaging cell lines suitable for use with the above-described retroviral vector constructs may be readily prepared (see PCT publications WO 95/30763 and WO 92/05266), and used to create producer cell lines (also termed vector cell lines) for the production of recombinant vector particles. Within particularly preferred embodiments of the invention, packaging cell lines are made from human (such as HT1080 cells) or mink parent cell lines, thereby allowing production of recombinant retroviruses that can survive inactivation in human serum.

The present invention also employs alphavirus-based vectors that can function as gene delivery vehicles. Such vectors can be constructed from a wide variety of alphaviruses, including, for example, Sindbis virus vectors, Semliki forest virus (ATCC VR-67; ATCC VR-1247), Ross River virus (ATCC VR-373; ATCC VR-1246) and Venezuelan equine encephalitis virus (ATCC VR-923; ATCC VR-1250; ATCC VR 1249; ATCC VR-532). Representative examples of such vector systems include those described in U.S. Patent Nos. 5,091,309; 5,217,879; and 5,185,440; and PCT Publication Nos. WO 92/10578; WO 94/21792; WO 95/27069; WO 95/27044; and WO 95/07994.



Gene delivery vehicles of the present invention can also employ parvovirus such as adeno-associated virus (AAV) vectors. Representative examples include the AAV vectors disclosed by Srivastava in WO 93/09239, Samulski et al., *J. Vir.* (1989) 63:3822-3828; Mendelson et al., *Virol.* (1988) 166:154-165; and Flotte et al., *PNAS* (1993) 90:10613-10617.

Representative examples of adenoviral vectors include those described by Berkner, *Biotechniques* (1988) 6:616-627; Rosenfeld et al., *Science* (1991) 252:431-434; WO 93/19191; Kolls et al., *PNAS* (1994) 91:215-219; Kass-Eisler et al., *PNAS* (1993) 90:11498-11502; Guzman et al., *Circulation* (1993) 88:2838-2848; Guzman et al., *Cir. Res.* (1993) 73:1202-1207; Zabner et al., *Cell* (1993) 75:207-216; Li et al., *Hum. Gene Ther.* (1993) 4:403-409; Cailaud et al., *Eur. J. Neurosci.* (1993) 5:1287-1291; Vincent et al., *Nat. Genet.* (1993) 5:130-134; Jaffe et al., *Nat. Genet.* (1992) 1:372-378; and Levrero et al., *Gene* (1991) 101:195-202. Exemplary adenoviral gene therapy vectors employable in this invention also include those described in WO 94/12649, WO 93/03769; WO 93/19191; WO 94/28938; WO 95/11984 and WO 95/00655. Administration of DNA linked to killed adenovirus as described in Curiel, *Hum. Gene Ther.* (1992) 3:147-154 may be employed.

Other gene delivery vehicles and methods may be employed, including polycationic condensed DNA linked or unlinked to killed adenovirus alone, for example Curiel, *Hum. Gene Ther.* (1992) 3:147-154; ligand linked DNA, for example see Wu, *J. Biol. Chem.* (1989) 264:16985-16987; eukaryotic cell delivery vehicles cells, for example see U.S. Serial No. 08/240,030, filed May 9, 1994, and U.S. Serial No. 08/404,796; deposition of photopolymerized hydrogel materials; hand-held gene transfer particle gun, as described in U.S. Patent No. 5,149,655; ionizing radiation as described in U.S. Patent No. 5,206,152 and in WO92/11033; nucleic charge neutralization or fusion with cell membranes. Additional approaches are described in Philip, *Mol. Cell Biol.* (1994) 14:2411-2418, and in Woffendin, *Proc. Natl. Acad. Sci.* (1994) 91:1581-1585.

Naked DNA may also be employed. Exemplary naked DNA introduction methods are described in WO 90/11092 and U.S. Patent No. 5,580,859.



Further non-viral delivery suitable for use includes mechanical delivery systems such as the approach described in Woffendin *et al.*, *Proc. Natl. Acad. Sci. USA* (1994) 91(24):11581-11585.

#### Computer-Related Embodiments

5           In general, a library of polynucleotides is a collection of sequence information, which information is provided in either biochemical form (*e.g.*, as a collection of polynucleotide molecules), or in electronic form (*e.g.*, as a collection of polynucleotide sequences stored in a computer-readable form, as in a computer system and/or as part of a computer program). The sequence information of the  
10 polynucleotides can be used in a variety of ways, *e.g.*, as a resource for gene discovery, as a representation of sequences expressed in a selected cell type (*e.g.*, cell type markers), and/or as markers of a given disease or disease state. In general, a disease marker is a representation of a gene product that is present in all cells affected by disease either at an increased or decreased level relative to a normal cell (*e.g.*, a cell of  
15 the same or similar type that is not substantially affected by disease).

          The nucleotide sequence information of the library can be embodied in any suitable form, *e.g.*, electronic or biochemical forms. For example, a library of sequence information embodied in electronic form comprises an accessible computer data file (or, in biochemical form, a collection of nucleic acid molecules) that contains  
20 the representative nucleotide sequences of genes that are differentially expressed (*e.g.*, overexpressed or underexpressed) as between, for example, a cancerous cell and a normal cell. Biochemical embodiments of the library include a collection of nucleic acids that have the sequences of the genes in the library, where the nucleic acids can correspond to the entire gene in the library or to a fragment thereof, as described in  
25 greater detail below.

          The polynucleotide libraries of the subject invention generally comprise sequence information of a plurality of polynucleotide sequences, where at least one of the polynucleotides has a sequence of any of SEQ ID NOs:1-339. By plurality is meant at least 2, usually at least 3 and can include up to all of SEQ ID NOs:1-339. The length  
30 and number of polynucleotides in the library will vary with the nature of the library,



*e.g.*, if the library is an oligonucleotide array, a cDNA array, a computer database of the sequence information, etc.

Where the library is an electronic library, the nucleic acid sequence information can be present in a variety of media. "Media" refers to a manufacture, other than an isolated nucleic acid molecule, that contains the sequence information of the present invention. Such a manufacture provides the genome sequence or a subset thereof in a form that can be examined by means not directly applicable to the sequence as it exists in a nucleic acid. For example, the nucleotide sequence of the present invention, *e.g.*, the nucleic acid sequences of any of the polynucleotides of SEQ ID NOs:1-339, can be recorded on computer readable media, *e.g.*, any medium that can be read and accessed directly by a computer. Such media include, but are not limited to: magnetic storage media, such as a floppy disc, a hard disc storage medium, and a magnetic tape; optical storage media such as CD-ROM; electrical storage media such as RAM and ROM; and hybrids of these categories such as magnetic/optical storage media. One of skill in the art can readily appreciate how any of the presently known computer readable mediums can be used to create a manufacture comprising a recording of the present sequence information. "Recorded" refers to a process for storing information on computer readable medium, using any such methods as known in the art. Any convenient data storage structure can be chosen, based on the means used to access the stored information. A variety of data processor programs and formats can be used for storage, *e.g.*, word processing text file, database format, *etc.* In addition to the sequence information, electronic versions of the libraries of the invention can be provided in conjunction or connection with other computer-readable information and/or other types of computer-readable files (*e.g.*, searchable files, executable files, *etc.*, including, but not limited to, for example, search program software, *etc.*).

By providing the nucleotide sequence in computer readable form, the information can be accessed for a variety of purposes. Computer software to access sequence information is publicly available. For example, the BLAST (Altschul et al., *supra.*) and BLAZE (Brutlag et al. *Comp. Chem.* (1993) 17:203) search algorithms on a Sybase system can be used to identify open reading frames (ORFs) within the genome that contain homology to ORFs from other organisms.



As used herein, "a computer-based system" refers to the hardware means, software means, and data storage means used to analyze the nucleotide sequence information of the present invention. The minimum hardware of the computer-based systems of the present invention comprises a central processing unit (CPU), input means, output means, and data storage means. A skilled artisan can readily appreciate that any one of the currently available computer-based system are suitable for use in the present invention. The data storage means can comprise any manufacture comprising a recording of the present sequence information as described above, or a memory access means that can access such a manufacture.

"Search means" refers to one or more programs implemented on the computer-based system, to compare a target sequence or target structural motif, or expression levels of a polynucleotide in a sample, with the stored sequence information. Search means can be used to identify fragments or regions of the genome that match a particular target sequence or target motif. A variety of known algorithms are publicly known and commercially available, *e.g.*, MacPattern (EMBL), BLASTN and BLASTX (NCBI). A "target sequence" can be any polynucleotide or amino acid sequence of six or more contiguous nucleotides or two or more amino acids, preferably from about 10 to 100 amino acids or from about 30 to 300 nt. A variety of comparing means can be used to accomplish comparison of sequence information from a sample (*e.g.*, to analyze target sequences, target motifs, or relative expression levels) with the data storage means. A skilled artisan can readily recognize that any one of the publicly available homology search programs can be used as the search means for the computer based systems of the present invention to accomplish comparison of target sequences and motifs. Computer programs to analyze expression levels in a sample and in controls are also known in the art.

A "target structural motif," or "target motif," refers to any rationally selected sequence or combination of sequences in which the sequence(s) are chosen based on a three-dimensional configuration that is formed upon the folding of the target motif, or on consensus sequences of regulatory or active sites. There are a variety of target motifs known in the art. Protein target motifs include, but are not limited to, enzyme active sites and signal sequences. Nucleic acid target motifs include, but are



not limited to, hairpin structures, promoter sequences and other expression elements such as binding sites for transcription factors.

A variety of structural formats for the input and output means can be used to input and output the information in the computer-based systems of the present invention. One format for an output means ranks the relative expression levels of different polynucleotides. Such presentation provides a skilled artisan with a ranking of relative expression levels to determine a gene expression profile..

As discussed above, the "library" of the invention also encompasses biochemical libraries of the polynucleotides of SEQ ID NOs:1-339, *e.g.*, collections of nucleic acids representing the provided polynucleotides. The biochemical libraries can take a variety of forms, *e.g.*, a solution of cDNAs, a pattern of probe nucleic acids stably associated with a surface of a solid support (*i.e.*, an array) and the like. Of particular interest are nucleic acid arrays in which one or more of SEQ ID NOs:1-339 is represented on the array. By array is meant a an article of manufacture that has at least a substrate with at least two distinct nucleic acid targets on one of its surfaces, where the number of distinct nucleic acids can be considerably higher, typically being at least 10 nt, usually at least 20 nt and often at least 25 nt. A variety of different array formats have been developed and are known to those of skill in the art. The arrays of the subject invention find use in a variety of applications, including gene expression analysis, drug screening, mutation analysis and the like, as disclosed in the above-listed exemplary patent documents.

In addition to the above nucleic acid libraries, analogous libraries of polypeptides are also provided, where the where the polypeptides of the library will represent at least a portion of the polypeptides encoded by SEQ ID NOs:1-339.

The present invention will now be illustrated by reference to the following examples which set forth particularly advantageous embodiments. However, it should be noted that these embodiments are illustrative and are not to be construed as restricting the invention in any way.



## EXAMPLES

### EXAMPLE 1

#### ISOLATION OF THE POLYNUCLEOTIDES

cDNA libraries were prepared from PrEC, normal human prostate  
5 epithelial cells, and LNCaP, a cell line derived from human lymph node metastasized  
prostate cancer. PrEC cells are available from Clonetics, San Diego, California, U.S.A.  
LNCaP cells are available from the ATCC, Manassas, Virginia, U.S.A.

Using a PCR technique and reagents available from Clontech, Palo Alto,  
California, USA (CLONTECH PCR-Select™), mRNA up-regulated in LNCaP was  
10 captured and amplified. The captured polynucleotide inserts were inserted in the  
pCR2.1 vector, available from Invitrogen, Carlsbad, California, U.S.A. The vectors  
with the inserts were transformed into *E. coli* cells.

### EXAMPLE 2

#### CONFIRMATION OF DIFFERENTIAL DISPLAY

15 Ten clones were chosen at random, and up-regulation of the sequences of  
these clone inserts in LNCaP versus PrEC cells was confirmed by Northern blot. Dot  
blots were performed on 168 clones and up-regulation was confirmed.

Further, sequencing of the clones showed that prostate specific antigen  
(PSA) and prostate specific membrane antigen (PSMA) sequences were isolated by the  
20 process described in Example 1. A good correlation between increased serum PSA  
levels and prostate tumors has been observed. PSMA, a cell surface antigen, is another  
observed marker for prostate cancer. See Bosland, Encyclopedia of Cancer, Volume II,  
pages 1283-1296 (1997), Academic Press. Thus, the data confirm that up-regulated  
mRNA characteristic of gene expression in prostate cancer was cloned by the method of  
25 Example 1.



### EXAMPLE 3

#### POLYNUCLEOTIDE SEQUENCES

The sequence results are shown in SEQ ID NO:1-339. For the sequencing experiments, each clone was named SL-1 to SL-209. Inserts from some of the clones were sequenced more than once. Each sequence was designated a unique combination of two names. This unique combination is shown in Table 1 in columns 2 and 3, denoted as "Sequence Name" and "Other Seq Name."

Table 1 indicates all the sequences that correspond to each clone. Thus, all the sequences corresponding to clone SL-3, for example, are grouped together in Table 1.

Clones also were assigned cluster numbers. See column 4 of Table 1. Clones with the same cluster number generally comprise sequence derived from the same mRNA transcripts.

The last column of Table 1 indicates the nearest neighbor as determined by an alignment to sequences in a publicly available database.

A consensus for the sequence of each clone can be constructed by aligning the corresponding sequences or reverse complements thereof. Table 1 lists the names of all the sequences that correspond to each clone, and Table 2 shows the specific sequence that corresponds to each unique combination of Sequence Name and/or "Other Seq. Name."

The entire insert of some clones may not be represented by the sequences presented in Table 2. For example, the 5' and 3' ends of a clone insert may have been sequenced, but the sequences do not overlap. Additional sequence corresponding to the clone insert can be isolated and determined by constructing probes or primers from the sequences presented in Table 2 and a library of mRNA or cDNA from a prostate cell or prostate cancer cell line using the methods described above.



## EXAMPLE 4

## RESULTS OF PUBLIC DATABASE SEARCH

Both the nucleotide sequence and translations of masked sequences shown in the Sequence Listing were aligned with individual sequences that were publicly available. Similarity with individual sequences is used to determine the activity of the polypeptides encoded by genes corresponding to the sequences referred to in Table 2.

The sequences in SEQ ID NO:1-333 first were masked to remove the pCR2.1 vector sequences. Masking was performed by aligning the pCR2.1 sequences with each of SEQ ID NO:1-333 using the BLASTN program. Any sequence that produced an alignment with a score of less than 0.1 was masked.

A BLASTN vs. Genbank search was performed using the masked sequences with search parameters of greater than 99% overlap, 99% identity, and a p value of less than  $1 \times 10^{-40}$  and this resulted in discard of sequences. Sequences from this search also were discarded if the inclusive parameters were met, but the sequence was ribosomal or vector-derived.

The resulting sequences from the previous search were classified into three groups (1, 2 and 3 below) and searched in a BLASTX vs. NRP (non-redundant proteins) database search: (1) unknown (no hits in the Genbank search), (2) weak similarity (greater than 45% identity and p value of less than  $1 \times 10^{-5}$ ), and (3) high similarity (greater than 60% overlap, greater than 80% identity, and p value less than  $1 \times 10^{-5}$ ). This search resulted in discard of sequences as having greater than 99% overlap, greater than 99% identity, and p value of less than  $1 \times 10^{-40}$ .

The remaining sequences were classified as unknown (no hits), weak similarity, and high similarity (parameters as above). Two searches were performed on this set of sequences. First, a BLAST vs. EST database search resulted in discard of sequences with greater than 99% overlap, greater than 99% similarity and a p value of less than  $1 \times 10^{-40}$ ; sequences with a p value of less than  $1 \times 10^{-65}$  when compared to a database sequence of human origin were also excluded. Second, a BLASTN vs. Patent



GeneSeq database resulted in discard of sequences with greater than 99% identity; p value less than  $1 \times 10^{-40}$ ; greater than 99% overlap.

The masked sequences were translated in all six reading frames to determine the best alignment with the individual sequences. These amino acid sequences and nucleotide sequences are referred, generally, as query sequences, which are aligned with the individual sequences.

Query and individual sequences were aligned using the BLAST programs, available over the world wide web.

Table 2 shows the results of the alignments. Table 2 refers to each sequence by its Sequence Name and/or "Other Seq. Name" and includes the accession numbers and descriptions of nearest neighbors from the Genbank and Non-Redundant Protein searches.

The activity of the polypeptide encoded by the sequences referred to in Table 2 is expected to be the same or similar to the nearest neighbor reported in Table 2. The accession number of the nearest neighbor is reported, providing a reference to the activities exhibited by the nearest neighbor. The search program and database used for the alignment also are indicated as well as a calculation of the p value.

Full length sequences or fragments of the polynucleotide sequences of the nearest neighbors can be used as probes and primers to identify and isolate the full length sequence corresponding to sequence referred to in Table 2. Although full length sequences can be obtained from the cell lines described above, the nearest neighbors can indicate a tissue or cell type to be used to construct a library for the full-length sequences of those referred to in Table 2.

The sequences referred to in Table 2 and the translations thereof may be human homologs of known genes of other species or novel allelic variants of known human genes. In such cases, these new human sequences may be suitable as diagnostics, prognostics, or therapeutics. As diagnostics, the human sequences exhibit greater specificity in detecting and differentiating human cell lines and types than homologs of other species. The human polypeptides are less likely to be immunogenic when administered to humans than homologs from other species. Further, on



administration to humans, the encoded polypeptides can show greater specificity or can be better regulated by other human proteins than are homologs from other species.

In the preferred embodiments of the invention, the sequences shown in SEQ ID NO:1-339 consisting of the unmasked regions should be considered as the source of probes and primers, as these sequences are most representative of the distinguishing portions of these polynucleotides.

Generally, the masking itself does not influence the search results as shown in Table 2, except to eliminate multiple "hits" based on similarity to repetitive regions common to more than one polypeptide.

10

### EXAMPLE 5

#### ANALYSIS OF CLONES SL-5, SL-9, SL-68, AND SL-173

##### Clone SL-5 (SEQ ID NO:14 and 334)

By Northern Blot, a 4.1 kb band was observed in expressed in normal prostate, testis, and lymphoblastic leukemia. It was also expressed in the cell lines LNCaP, and MDA PCa 2A and 2B (metastatic prostate cells into bone, androgen sensitive). Additional sequence corresponding to SEQ ID NO:14 is disclosed in SEQ ID NO:334.

Expression of SL-5 was investigated in normal and tumor tissues using immunohistochemistry. Antibody was prepared using two sequences from clone SL-5: H<sub>2</sub>N-CGPRLPSFPCPTHEPSTGQLSK-CONH<sub>2</sub> and H<sub>2</sub>N-CKDSQGLSDFKRNSRTTR-RSYKCCONH<sub>2</sub>. Using polyclonal antibodies raised against a mixture of these polypeptides, immunohistochemistry (IHC) was performed on a variety of tumor tissues and corresponding normal tissue. The methods used were those described for the Manual IHC Protocol using BioGenex Reagents and Zymed AEC Solution, as known in the art. As shown in Figure 3, SL-5 was detected in the following tumor tissue: adrenal, ovary, breast, colon, prostate, uterus, cervix, kidney, pancreas, liver, stomach, lymphoma, seminoma, thyroid, melanoma, basal cell carcinoma, and other tumor tissues. Where comparative normal tissue was available, expression in the



corresponding normal tissue was lower than in the tumor tissue. Thus, SL-5 is a useful marker for cancer tissue including prostate.

Clone SL-9 (SEQ ID NO:18)

By Northern Blot, sequences from SL-9 were specifically expressed in  
5 normal spleen and normal peripheral blood leukocyte. Expression of the SL-9  
sequences was observed also in promyelocytic leukemia HL-60, chronic myelogenous  
leukemia K-562, lymphoblastic leukemia MOLT-4, Burkitt's lymphoma, and Raji  
cancer cell lines by Northern Blot.

Clone SL-173 (SEQ ID NO:153 and 154)

10 By Northern Blot, SL173 was found in every cancer cell line tested.  
Sequence from SL-173 has similarity to and may be a human homologue of the rat  
tumor transforming gene, which was found in the pituitary and described in Pei *et al.*,  
Mol. Endo. 11: 433-441 (1997) and Pei, *J. Biol. Chem.* 273(9): 5219-5225 (1998).  
When the rat tumor transforming gene was injected in NIH3T3 cells, the cells became  
15 transformed and were able to form a tumor when injected into mice. (Pei *et al.*, Mol.  
Endo. *supra*).

Clone SL-68 (SEQ ID NO:218 and 219)

Two transcripts, 2.6kb and 4.3kb, were observed in normal spleen,  
thymus and peripheral blood leukocytes, as well as in promyelocytic leukemia, chronic  
20 myelogenous leukemia and lymphoblastic leukemia. The 4.3kb transcript was seen in  
normal testis, colon, Hela cell S3, colorectal adenocarcinoma and melanoma. The  
2.6kb band was found in the following prostate cell lines: PC-3 (metastatic to bone,  
androgen insensitive); DU-145 (metastatic to brain, androgen insensitive); FFpz  
(primary cells derived from normal prostate epithelium); Ffca (primary cells derived  
25 from Gleason Grade 3 prostate cancer epithelium); and WO-CA (primary cells derived  
from Gleason Grade 4 prostate cancer epithelium). However, higher expression was  
observed in LNCaP, MDA PCa 2A, HPV-7 and HPV-10. A 9.5kb transcript was also  
observed in MDA PCa 2A and 2B. Additional sequence corresponding to this clone is  
disclosed in SEQ ID NO:335.



Clone SL69 (SEQ ID NO:220 and 221)

A weak 2.6kb band was observed in normal testis as well as in chronic myelogenous leukemia and lymphoblastic leukemia. Additional sequence corresponding to this clone is disclosed in SEQ ID NO:336.

5

Clone SL86 (SEQ ID NO:242 and 243)

The sequence was expressed in normal prostate (2.7kb and 1.1kb) and testis (1.1kb). Low expression was observed in a cancer cell line blot using the cell lines described above. 1.1kb and 2.7kb transcripts were observed in the cell lines  
10 LNCaP, and MDA PCa 2a and 2b (metastatic prostate cells into bone, androgen sensitive), and weak 1.1kb transcript was seen in HPV-7 (immortalized normal prostate cells) and HPV-10 (immortalized prostate cancer cells). Additional sequence corresponding to this clone is disclosed in SEQ ID NO:337.

15 Clone SL195 (SEQ ID NO:288 and 289)

The sequence was expressed in normal prostate as a 1.9kb transcript, and the same transcript also observed in all cell lines in the cancer cell line blot described above. It was more heavily expressed in HeLa cell S3 and chronic myelogenous leukemia, and was expressed in all prostate cell lines. Additional sequence  
20 corresponding to this clone is disclosed in SEQ ID NO:338.

Clone SL197 (SEQ ID NO:292 and 293)

Two transcripts, 2.4kb and 4kb, were observed in normal prostate and testis. Two very weak 2.4kb signals were observed in HeLa cell S3 and chronic  
25 myelogenous leukemia. The 2.4kb transcript was expressed in all prostate cell lines. A 4kb transcript was found in LNCaP, MDA PCa 2A and 2B. Additional sequence corresponding to this clone is disclosed in SEQ ID NO:339.

Those skilled in the art will recognize, or be able to ascertain, using not  
30 more than routine experimentation, many equivalents to the specific embodiments of



the invention described herein. Such specific embodiments and equivalents are intended to be encompassed by the following claims.

All patents, published patent applications and publications cited herein are incorporated by reference as if set forth fully herein.



TABLE 1

Clone #	Sequence Name	Other Seq Name	Clone # Cluster #	Nearest Neighbor If Available
SL-001	SL001 SL001M13	19sl1	SL-001	S60754 {VNTR locus DXZ4}
SL-002	SL002	20sl2	SL-002	L07935 HUMVNTRA
SL-003	SL003 SL003 SL003 SL003 SL003	21sl3 35-sl3-1m13 35-sl3-1t7 37-sl3-1m13 39-sl3-1m13	SL-003	AB006625 - KIAA0287 gene
SL-004	SL004 SL004M13	22sl4	SL-004	
SL-005	SL005 SL005	23sl5 30sl11b	SL-005	
SL-006	SL006 SL006M13	24sl6	SL-006	cosmid genomic clone
SL-007	SL007 SL007 SL007 SL007 SL007 SL007 SL007	25sl7 28-sl7-1m13 28-sl7-1t7 30-sl7-1m13 30-sl7-1t7 32-sl7-1m13 32-sl7-1t7	SL-003	AB006625- KIAA0287
SL-008	SL008	26sl8	SL-008	HUMP65 E=9e-62 L-plastin, Phosphoprotein (p65)
SL-009	SL009 SL009M13	27sl9		
SL-010	SL010	28sl10	SL-005	
SL-011	SL011	29sl11a	SL-011	HSU10685 - MAGE-10 Gene
SL-012	SL012	31sl12	SL-011	HSU10685 - MAGE-10 Gene
SL-013	SL013	32sl13		
SL-015	SL015 SL015 SL015 SL015	34sl15 46-sl15-2m13 47-sl15-2m13 47-sl15-2t7	SL-015	HSU90336 - PEG3 mRNA  HSMRNAEN - Enkephalinase
SL-016	SL016 SL016 SL016 SL016 SL016 SL016	10-sl16-1m13 10-sl16-1t7 11-sl16-1m13 18-sl16-2m13 18-sl16-2t7 19-sl16-2m13	SL-016	



TABLE 1

	SL016	19-sl16-2t7		
	SL016	20-sl16-2m13		
	SL016	20-sl16-2t7		
	SL016	35sl16		
	SL016	9-sl16-1t7		
SL-017	SL017	36sl17	SL-017	HUMORF01 - KIAA0101 gene
SL-028	SL028m13	B1	SL-028	
	SL028t7	B1		
SL-029	SL029m13	WE97.C1.M13	SL-029	
	SL029t7	WE97.C1.T7		
SL-032	SL032m13	WE97.D1.M13	SL-032	HSTPI1G TPI1 gene for triosephosphate isomerase.
	SL032t7	WE97.D1.T7		
SL-036	SL036m13	WE97.E1.M13	SL-036	HSU81599 homeodomain protein HOXB13
	SL036t7	WE97.E1.T7		
SL-037	SL037m13	C1	SL-005	
	SL037m13	WE97.F1.M13		
	SL037t7	C1		
SL-040	SL040m13	D1	SL-040	
	SL040t7	D1		
SL-041	SL041m13	E1	SL-016	
	SL041m13	WE97.H1.M13		
	SL041t7	E1		
	SL041t7	WE97.H1.T7		
SL-042	SL042m13	WE97.A2.M13	SL-008	HUMP65 phosphoprotein (p65) HUMPLASTA L-plastin gene
	SL042t7	WE97.A2.T7		
SL-044	SL044m13	WE97.B2.M13	SL-016	
	SL044t7	WE97.B2.T7		
SL-045	SL045m13	WE97.C2.M13	SL-045	genomic DNA
	SL045t7	WE97.C2.T7		
SL-046	SL046m13	WE97.D2.M13	SL-046	
	SL046t7	WE97.D2.T7		
SL-047	SL047m13	WE97.E2.M13	SL-047	
	SL047t7	WE97.E2.T7		
SL-050	SL050m13	WE97.F2.M13	SL-050	
	SL050t7	WE97.F2.T7		
SL-051	SL051m13	WE97.G2.M13	SL-051	
	SL051t7	WE97.G2.T7		
SL-054	SL054m13	WE97.H2.M13	SL-054	
	SL054t7	WE97.H2.T7		
SL-055	SL055m13	F1	SL-050	
	SL055t7	F1		
	SL055t7	WE97.A3.T7		



TABLE 1

SL-057	SL057m13 WE97.C3.M13 SL057t7 WE97.C3.T7	SL-057	
SL-058	SL058m13 WE97.D3.M13 SL058t7 WE97.D3.T7	SL-058	HSLRPR1GN leucine-rich primary response protein 1.
SL-061	SL061m13 WE97.E3.M13 SL061t7 WE97.E3.T7	SL-028	
SL-062	SL062m13 WE97.F3.M13 SL062t7 WE97.F3.T7	SL-028	
SL-064	SL064m13 WE97.G3.M13 SL064t7 WE97.G3.T7	SL-064	
SL-066	SL066m13 WE97.H3.M13 SL066t7 WE97.H3.T7	SL-016	
SL-067	SL067m13 H1 SL067t7 H1 SL067t7 WE97.A4.T7	SL-067	HUMKIAAP - KIAA0095 gene
SL-068	SL068m13 WE97.B4.M13 SL068t7 WE97.B4.T7	SL-068	
SL-069	SL069m13 WE97.C4.M13 SL069t7 WE97.C4.T7	SL-069	
SL-071	SL071m13 WE97.D4.M13 SL071t7 WE97.D4.T7	SL-071	
SL-072	SL072m13 WE97.E4.M13 SL072t7 WE97.E4.T7	SL-015	HSU90336 Human PEG3 mRNA AB006625 KIAA0287
SL-074	SL074m13 WE97.F4.M13 SL074t7 WE97.F4.T7	SL-074	
SL-075	SL075m13 WE97.G4.M13 SL075t7 WE97.G4.T7	SL-075	
SL-076	SL076m13 WE97.H4.M13 SL076t7 WE97.H4.T7	SL-076	
SL-077	SL077m13 WE97.A5.M13 SL077t7 WE97.A5.T7	SL-077	
SL-078	SL078m13 A2 SL078m13 WE97.B5.M13 SL078t7 A2	SL-016	
SL-081	SL081m13 WE97.E5.M13 SL081t7 WE97.E5.T7	SL-003	BAC clone (with Alu) AB006625 - KIAA0287 gene
SL-083	SL083m13 WE97.G5.M13 SL083t7 WE97.G5.T7	SL-083	
SL-084	SL084m13 WE97.H5.M13 SL084t7 WE97.H5.T7	SL-084	(HS295C6 Human DNA sequence)



TABLE 1

SL-085	SL085m13 WE97.A6.M13	SL-085	
SL-086	SL086m13 WE97.B6.M13	SL-086	
	SL086t7 WE97.B6.T7		
SL-087	SL087m13 WE97.C6.M13	SL-087	EST and Mus musculus
	SL087t7 WE97.C6.T7		ras-GTPase-activating protein
SL-088	SL088m13 WE97.D6.M13	SL-015	HSU90336 Human PEG3
	SL088t7 WE97.D6.T7		& AB006625 - KIAA0287 gene
SL-089	SL089m13 WE97.E6.M13	SL-089	
	SL089t7 WE97.E6.T7		
SL-090	SL090m13 D2	SL-090	
	SL090t7 D2		
SL-091	SL091m13 WE97.G6.M13	SL-091	
	SL091t7 WE97.G6.T7		
SL-092	SL092m13 WE97.H6.M13	SL-092	HUMPRKACB testis-specific
	SL092t7 WE97.H6.T7		cAMP-dependent protein kinase
			catalytic subunit (C-beta isoform)
SL-093	SL093m13 E2	SL-008	HUMLPLSTN2 L-plastin gene
	SL093t7 E2		
SL-094	SL094m13 WE97.B7.M13	SL-094	
	SL094t7 WE97.B7.T7		
SL-095	SL095m13 WE97.C7.M13	SL-003	AB006625 - KIAA0287
	SL095t7 WE97.C7.T7		
SL-096	SL096m13 WE97.D7.M13	SL-096	
	SL096t7 WE97.D7.T7		
SL-097	SL097m13	SL-071	
	SL097t7		
SL-098	SL098m13	SL-098	
	SL098t7		
SL-099	SL099m13	SL-016	
	SL099t7		
SL-100	SL100m13 F2	SL-085	SL100m13 Alu - 2e-71
	SL100m13		
	SL100t7 F2		
	SL100t7		
SL-102	SL102m13	SL-102	HSRPL32 ribosomal protein L32
	SL102t7		
SL-103	SL103m13	SL-103	
	SL103t7		
SL-105	SL105m13	SL-105	
	SL105t7		
SL-106	SL106m13	SL-106	
	SL106t7		
SL-107	SL107m13	SL-016?	SL107m13 -Alu - 2e-78
	SL107t7		
SL-110	SL110m13	SL-003	AB006625- KIAA0287 gene



TABLE 1

	SL110t7		
SL-111	SL111m13 SL111t7	SL-111	
SL-112	SL112m13 SL112t7	SL-112	
SL-115	SL115m13 SL115t7	SL-115	D86322 - calmegin
SL-116	SL116m13 SL116t7	SL-116	
SL-117	SL117m13 SL117t7	SL-117	HUMNUMB23 = HUMNPM Human nucleolar protein (B23) or Human nucleophosmin
SL-118	SL118m13 SL118t7	SL-118	
SL-119	SL119m13 SL119t7	SL-119	
SL-120	SL120m13 SL120t7	SL-046	
SL-121	SL121m13 SL121t7	SL-016	
SL-122	SL122m13 SL122t7	SL-122	HUMPRKACB testis-specific cAMP-dependent protein kinase catalytic subunit (C-beta isoform)
SL-124	SL124m13 SL124t7	SL-016	
SL-125	SL125m13 SL125t7	SL-125	HSU19145 GAGE-4 (US 5,648,226)
SL-127	SL127m13 SL127t7	SL-127	
SL-128	SL128m13 SL128t7	SL-005	
SL-130	SL130m13 SL130t7	SL-130	
SL-132	SL132m13 SL132t7	SL-011	HSU10685 MAGE-10 gene (US 5,612,201)
SL-134	SL134m13 SL134t7	SL-134	HSC70P Hsc 70 pseudogene (Heat Shock protein)
SL-135	SL135m13 SL135t7	SL-135	
SL-138	SL138m13 SL138t7	SL-051	
SL-139	SL139m13 SL139t7	SL-139	Homo sapiens cosmid
SL-142	SL142m13 SL142t7	SL-005	



TABLE 1

SL-143	SL143m13 SL143t7	SL-143	Genomic clone AC003978
SL-144	SL144m13 SL144t7	SL-144	E= 3-81
SL-145	SL145m13	SL-003	AB006625- KIAA0287 gene
SL-146	SL146m13 WE97.E7.M13 SL146t7 WE97.E7.T7	SL-146	
SL-147	SL147m13 G2 SL147m13 WE97.F7.M13 SL147t7 G2	SL-147	(1) HSCDC2R Human cell cycle control gene CDC2 (2) HSU29091 selenium-binding
SL-148	SL148m13 WE97.G7.M13 SL148t7 WE97.G7.T7	SL-016	
SL-149	SL149m13 H2 SL149t7 H2	SL-149	
SL-150	SL150m13 A3 SL150t7 A3	SL-150	"Human DNA sequence"
SL-151	SL151m13 WE97.B8.M13 SL151t7 WE97.B8.T7	SL-151	Genomic frag
SL-152	SL152m13 WE97.C8.M13 SL152t7 WE97.C8.T7	SL-152	
SL-153	SL153m13 WE97.D8.M13 SL153t7 WE97.D8.T7	SL-153	
SL-154	SL154t7 WE97.E8.T7	SL-154	HUMPAR5R - PAR-5 mRNA
SL-155	SL155m13 WE97.F8.M13 SL155t7 WE97.F8.T7	SL-028	SL155m13 - EST only in Mouse
SL-156	SL156m13 WE97.G8.M13 SL156t7 WE97.G8.T7	SL-016	
SL-157	SL157m13 WE97.H8.M13 SL157t7 WE97.H8.T7	SL-157	
SL-158	SL158m13 WE97.A9.M13 SL158t7 WE97.A9.T7	SL-011	HSU10685 MAGE-10 gene (US 5,612,201)
SL-159	SL159m13 WE97.B9.M13 SL159t7 WE97.B9.T7	SL-159	Chromosome 11 pac
SL-160	SL160m13 WE97.C9.M13 SL160t7 WE97.C9.T7	SL-051	
SL-161	SL161m13 WE97.D9.M13 SL161t7 WE97.D9.T7	SL-161	HUMP65 phosphoprotein (p65) HUMPLASTA L-plastin gene
SL-162	SL162m13 B3 SL162t7 B3	SL-162	
SL-163	SL163m13 WE97.F9.M13 SL163t7 WE97.F9.T7	SL-016	HSU75330 -NCAM21
SL-164	SL164m13 WE97.G9.M13 SL164t7 WE97.G9.T7	SL-016	
SL-165	SL165m13 WE97.H9.M13 SL165t7 WE97.H9.T7	SL-165	(genomic seq)



TABLE 1

SL-166	SL166m13 C3 SL166t7 C3 SL166t7 WE97.A10.T7	SL-166	
SL-167	SL167m13 WE97.B10.M13 SL167t7 WE97.B10.T7	SL-167	HUMLPAC109 lipoprotein-associated coagulation inhibitor (LACI) gene
SL-168	SL168m13 WE97.C10.M13 SL168t7 WE97.C10.T7	SL-168	
SL-169	SL169m13 WE97.D10.M13 SL169t7 WE97.D10.T7	SL-169	HUMNEUROF oligodendrocyte myelin glycoprotein (OMG)
SL-170	SL170m13 WE97.E10.M13 SL170t7 WE97.E10.T7	SL-170	
SL-171	SL171m13 WE97.F10.M13 SL171t7 WE97.F10.T7	SL-171	AB002374 - KIAA0376 gene
SL-172	SL172m13 WE97.G10.M13 SL172t7 WE97.G10.T7	SL-016	
SL-173	SL173m13 WE97.H10.M13 SL173t7 WE97.H10.T7	SL-173	
SL-174	SL174m13 D3 SL174t7 D3	SL-174	
SL-175	SL175m13 WE97.B11.M13 SL175t7 WE97.B11.T7	SL-016	
SL-176	SL176m13 WE97.C11.M13 SL176t7 WE97.C11.T7	SL-176	
SL-177	SL177m13 WE97.D11.M13 SL177t7 WE97.D11.T7	SL-177	
SL-178	SL178m13 WE97.E11.M13 SL178t7 WE97.E11.T7	SL-178	Human BAC clone
SL-179	SL179m13 WE97.F11.M13 SL179t7 WE97.F11.T7	SL-179	
SL-181	SL181m13 WE97.H11.M13 SL181t7 WE97.H11.T7	SL-181	
SL-182	SL182m13 F3 SL182m13 WE97.A12.M13 SL182t7 F3	SL-182	HUMAPEA apurinic/apyrimidinic endonuclease (HAP1h) HSHAP1MR Human HAP1 mRNA
SL-183	SL183m13 WE97.B12.M13 SL183t7 WE97.B12.T7	SL-046	
SL-184	SL184m13 WE97.C12.M13 SL184t7 WE97.C12.T7	SL-016	
SL-186	SL186m13 WE97.D12.M13 SL186t7 WE97.D12.T7	SL-186	
SL-187	SL187m13 WE97.E12.M13 SL187t7 WE97.E12.T7	SL-187	
SL-188	SL188m13 G3 SL188t7 G3 SL188t7 WE97.F12.T7	SL-188	



TABLE 1

SL-191	SL191m13 WE97.H12.M13 SL191t7 WE97.H12.T7	SL-181	
SL-192	SL192m13 H3 SL192t7 H3	SL-192	Human DNA sequence"
SL-193	SL193m13 A4 SL193t7 A4	SL-193	
SL-194	SL194m13 B4 SL194t7 B4	SL-194	HUMKG1DD - KIAA0098 gene
SL-195	SL195m13 C4 SL195t7 C4	SL-195	
SL-196	SL196m13 D4 SL196t7 D4	SL-196	HUMMAOAAA monoamine oxidase (MAOA)
SL-197	SL197m13 E4 SL197t7 E4	SL-197	
SL-198	SL198m13 F4 SL198t7 F4	SL-198	
SL-199	SL199m13 G4 SL199t7 G4	SL-016	
SL-201	SL201m13 A5 SL201t7 A5	SL-028	(Mouse ESTs only)
SL-202	SL202m13 B5 SL202t7 B5	SL-202	mitochondrial genome & ESTs(?)
SL-203	SL203m13 C5 SL203t7 C5	SL-040	
SL-204	SL204m13 D5 SL204t7 D5	SL-204	
SL-205	SL205m13 E5 SL205t7 E5	SL-205	
SL-206	SL206m13 F5 SL206t7 F5	SL-015	AB006625 - KIAA0287 gene
SL-207	SL207m13 G5 SL207t7 G5	SL-207	HUMFOLMES - DHFR dihydrofolate reductase gene
SL-208	SL208m13 H5 SL208t7 H5	SL-208	AB011165 - KIAA0593
SL-209	SL209m13 A6 SL209t7 A6	SL-209	

batch 1
batch 2
batch 3
batch 4



TABLE 2

Seq. Name and/or Other Seq. Name.	BlastN vs. Gb (nearest neighbor)			BlastX vs. NRPdb (nearest neighbor)		
	Accession	Hit Description	P(V)	Accession	Hit Description	P(V)
10-sl16-117	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
18-sl16-217	<NONE>	<NONE>	<NONE>	MT_PLEPL	METALLOTHIONEIN (MT)>PIR2:S30567 metallothionein - plaice>GP:PPMMET_1 P-platessa mRNA for metallothionein	0.32
22sl4	AC004601	*** SEQUENCING IN PROGRESS *** Human Chromosome 11p14.3 PAC clone pDJ939m16; HTGS phase 1, 3 unordered pieces.	0.016	VP1_BPCHP	PROTEIN VP1 (ORF1)	1.0
27sl9	AF001549	Homo sapiens chromosome 16 BAC clone CIT987SK-270G1 complete sequence.	7.2e-28	ALU6_HUMAN	IIII ALU SUBFAMILY SP WARNING ENTRY IIIII	3.5e-07
32sl13	AF006259	Homo sapiens Rad51-interacting protein mRNA, complete cds.	1.2e-09	MMU93583_1	Mus musculus RAD51-binding protein RAB22 mRNA, complete cds	1.2e-13
39-sl3-1m13	U07083	Human prostatic acid phosphatase (ACPP) gene, exon 1.	1.1e-09	MMU41047_1	Mus musculus transcription factor Genesis mRNA, complete cds; A winged helix retinoid- acid hepatocyte nuclear factor 3/forkhead transcription factor; HNF3/FH transcription factor	0.36
47-sl15-217	I08056	Sequence 2 from Patent EP 0272928.	4.8e-52	<NONE>	<NONE>	<NONE>
sl102m13	AC004453	Homo sapiens PAC clone DJ0844F09 from 7p12-p13, complete sequence.	5.0e-50	SIK1_YEAST	SIK1 PROTEIN>PIR2:S48550 hypothetical protein YLR197w - yeast (Saccharomyces cerevisiae)>GP:SCU20237_1 Saccharomyces cerevisiae SIK1p (SIK1) gene, complete cds; Possible microtubule binding protein; similar to GenBank Accession Number U14913	2.7e-09
sl103m13	AC002542	Human BAC clone RG114A06 from 7q31, complete sequence.	0.78	MUSIGHV01B_1	Mouse CBAJ Ig heavy chain V1 region pseudogene, 5' end; Ig heavy chain precursor; Possible pseudogene	0.30
sl10317	AC002542	Human BAC clone RG114A06 from 7q31, complete sequence.	7.0e-11	MUSIGHV01B_1	Mouse CBAJ Ig heavy chain V1 region pseudogene, 5' end; Ig heavy chain precursor; Possible pseudogene	0.25



TABLE 2

BlastN vs. Gb (nearest neighbor)		BlastX vs. NRPdb (nearest neighbor)				
Seq. Name and/or Other Seq. Name.	Accession	Hlt Description	P(V)	Accession	Hlt Description	P(V)
sl106i7	148979	Sequence 6 from patent US 5627054.	4.3e-39	Y694_METJA	HYPOTHETICAL PROTEIN MJ0694>PIR2:F64386 hypothetical protein MJ0694 - Methanococcus jannaschli>GP:U67516_8 Methanococcus jannaschli section 58 of 150 of the complete genome; Conserved hypothetical protein; Similar to SP:Q12499 PID:1420682 PI	1.5e-08
sl107i7.fsa	AL021385	Human DNA sequence ... SEQUENCING IN PROGRESS ... from clone 269M15; HTGS phase 1.	2.6e-07	ALU4_HUMAN	IIII ALU SUBFAMILY SB2 WARNING ENTRY IIII	0.45
sl124i7	B31344	HS-1008-A2-A05-MF.abl CIT Human Genomic Sperm Library C Homo sapiens genomic clone Plate=CT 330 Col=10 Row=A, genomic survey sequence.	1.0e-55	ALU7_HUMAN	IIII ALU SUBFAMILY SQ WARNING ENTRY IIII	1.2e-14
sl127i7	Z83818	Human DNA sequence from PAC 138A5 on chromosome X contains ESTs.	2.8e-16	YA3A_SCHPO	HYPOTHETICAL TRP-ASP REPEATS CONTAINING PROTEIN C18B11.10 IN CHROMOSOME I>PIR2:S58306 hypothetical protein SPAC18B11.10 - fission yeast (Schizosaccharomyces pombe)>GP:SPAC18B11_10 S.pombe chromosome I cosmid c18B11; Unknown; SPAC18B11;10, le	0.97
sl135m13	AC003959	Homo sapiens chromosome 5, P1 clone 1029A7 (LBNL H15), complete sequence.	1.8e-57	AC004416_5	Homo sapiens BAC clone RG013N12 from 7q31;2, complete sequence; H_RG013N12.gw;1335199;a	0.016
sl135i7	AC003044	Human PAC clone DJ1055C04 from 7p15-7p21, complete sequence.	3.8e-25	ATTS0669_1	A; thaliana transcribed sequence; clone VDV28- 22792, 3' end; similar to nonspecific lipid- transfer protein precursor	0.77
sl144m13	AC003684	Homo sapiens; HTGS phase 1, 53 unordered pieces.	2.2e-10	<NONE>	<NONE>	<NONE>
sl144i7	AC004089	... SEQUENCING IN PROGRESS ... Human Chromosome 7 BAC Clone 155b01; HTGS phase 1, 11 unordered pieces.	0.25	<NONE>	<NONE>	<NONE>



TABLE 2

Seq. Name and/or Other Seq. Name.	BlasIN vs. Gb (nearest neighbor)			BlasIX vs. NRpdb (nearest neighbor)		
	Accession	Hit Description	P(V)	Accession	Hit Description	P(V)
SL149m13 WE97.H7.M13	M87923	Human carcinoma cell-derived Alu RNA transcript, clone CE12.	7.2e-55	ALU2_HUMAN	IIII ALU SUBFAMILY SB WARNING ENTRY IIII	4.7e-17
SL150m13 WE 97.A8.M13	AF019122	Homo sapiens DNA polymerase gamma (POLG) gene, nuclear gene encoding mitochondrial protein, partial sequence, genomic survey sequence.	5.5e-07	<NONE>	<NONE>	<NONE>
SL152m13	AF022186	Cyanidium caldarium RK1 chloroplast sequence.	0.11	<NONE>	<NONE>	<NONE>
SL15217	AC002524	Homo sapiens Xp22 BAC GSHB- 257G1 (Genome Systems BAC Library) complete sequence.	3.5e-28	F40201	artifact-warning sequence (translated ALU class F) - human	1.2e-05
SL153m13	U29895	Human 4-hydroxyphenylpyruvate- dioxygenase gene, complete cds.	4.4e-15	C40201	artifact-warning sequence (translated ALU class C) - human	0.49
SL15317	U29895	Human 4-hydroxyphenylpyruvate- dioxygenase gene, complete cds.	5.1e-09	A46010	X-linked retinopathy protein (C-terminal, clone XEH.8c) - human (fragment)>GP:S58722_1 X- linked retinopathy protein (3' region, clone XEH.8c) [human, mRNA Partial, 390 nt]; This sequence comes from Fig: 5	0.070
SL155m13	Z99286	Caenorhabditis elegans cosmid Y7A9C, complete sequence.	0.016	POLG_PRSVH	GENOME POLYPROTEIN (CONTAINS: N- TERMINAL PROTEIN; HELPER COMPONENT PROTEINASE (EC 3.4.22.-) (HC-PRO); 42-50 KD PROTEIN; CYTOPLASMIC INCLUSION PROTEIN (CI); 6 KD PROTEIN; NUCLEAR INCLUSION PROTEIN A (NI- A) (EC 3.4.22.-) (49K PROTEINASE) (49	1.0
SL157m13	U91321	Human Chromosome 16 BAC clone CIT987SK-A-363E6, complete sequence.	6.0e-26	ALU1_HUMAN	IIII ALU SUBFAMILY J WARNING ENTRY IIII	4.5e-11



TABLE 2

BlastN vs. Gb (nearest neighbor)			BlastX vs. NRPdb (nearest neighbor)			
Seq. Name and/or Other Seq. Name.	Accession	Hit Description	P(V)	Accession	Hit Description	P(V)
SL16017	<NONE>	<NONE>	<NONE>	CA34_HUMAN	PROCOLLAGEN ALPHA 3(IV) CHAIN PRECURSOR>PIR1:CGHU3B collagen alpha 3(IV) chain precursor, long splice form - human>GPN:HSCOL4A3_1 H;sapiens COL4A3 mRNA; Type IV collagen alpha 3 chain>GP:HSCOL4A3_1 H;sapiens COL4A3 mRNA; Type IV collagen alp	0.99
SL16217 WE97.E9.T7	X58263	Mouse microsatellite marker DNA D4SMH6b, 4. ... SEQUENCING IN PROGRESS ... Homo sapiens chromosome 17, clone hRPC.1171_L10; HTGS phase 1, 4 unordered pieces.	0.0029	PRF1_LYCES	36.4 KD PROLINE-RICH PROTEIN>PIR2:S19129 proline-rich protein TPRP-F1 - tomato>GP:LETPRPF1_1 L; esculentum TPRP-F1 gene for a proline rich protein	0.99
SL16917 SL17417	AC004687 <NONE>	<NONE>	2.5e-11 <NONE>	<NONE> A54895	<NONE> mucin 2, intestinal/tracheal - rat (fragment)	<NONE> 0.13
SL176m13	Z73424	Caenorhabditis elegans cosmid C44B9, complete sequence.	0.00084	<NONE>	<NONE>	<NONE>
SL17617	Z83119	Caenorhabditis elegans cosmid R05H10, complete sequence.	0.38	<NONE>	<NONE>	<NONE>
SL177m13	AL022279	Caenorhabditis elegans DNA ... SEQUENCING IN PROGRESS ... from clone Y43F11; HTGS phase 1.	0.00064	ANX7_BOVIN	ANNEXIN VII (SYNEXIN) (FRAGMENT)>PIR2:A27695 synexin - bovine (fragment)	0.0018
SL17717	AC002416	Human Chromosome X, complete sequence.	1.8e-17	<NONE>	<NONE>	<NONE>
SL179m13	AF039052	Caenorhabditis elegans cosmid T22D1.	0.030	CMU23045_8	Cepaea nemoralis complete mitochondrial genome; ATPase subunit 8>GP:CMU23045_8 Cepaea nemoralis complete mitochondrial genome; ATPase subunit 8	0.98
SL17917	L41631	Mus musculus glucokinase gene, complete cds.	0.017	<NONE>	<NONE>	<NONE>



TABLE 2

Seq. Name and/or Other Seq. Name.	BlastN vs. Gb (nearest neighbor)			BlastX vs. NRPdb (nearest neighbor)		
	Accession	Hit Description	P(V)	Accession	Hit Description	P(V)
SL181m13	Z98867	Caenorhabditis elegans DNA ... SEQUENCING IN PROGRESS ... from clone Y52B11; HTGS phase 1.	0.017	PS0245	hypothetical protein (cpcG4 region) - Anabaena sp. (strain PCC 7120) (fragment)>GP:ANARODCOR_6 Anabaena sp; cpcF gene, 3' end; cpcG1, cpcG2, cpcG3, and cpcG4 genes, complete cds; and unknown ORF, 3' end	0.99
SL181i7	Z98867	Caenorhabditis elegans DNA ... SEQUENCING IN PROGRESS ... from clone Y52B11; HTGS phase 1.	0.018	PS0245	hypothetical protein (cpcG4 region) - Anabaena sp. (strain PCC 7120) (fragment)>GP:ANARODCOR_6 Anabaena sp; cpcF gene, 3' end; cpcG1, cpcG2, cpcG3, and cpcG4 genes, complete cds; and unknown ORF, 3' end	0.99
SL191m13	Z98867	Caenorhabditis elegans DNA ... SEQUENCING IN PROGRESS ... from clone Y52B11; HTGS phase 1.	0.019	<NONE>	<NONE>	<NONE>
SL195m13	AC004626	... SEQUENCING IN PROGRESS ... Homo sapiens chromosome #16q12.1+16q22/23+1q11/12 BAC clone CIT987SK-A-427H10; HTGS phase 1, 15 unordered pieces.	0.050	HSU55091_1	Human isolate HR015 T cell receptor V-beta complementarity determining region 3 mRNA, partial cds	1.0
SL195i7	AC004626	... SEQUENCING IN PROGRESS ... Homo sapiens chromosome #16q12.1+16q22/23+1q11/12 BAC clone CIT987SK-A-427H10; HTGS phase 1, 15 unordered pieces.	0.053	S54078	probable membrane protein YPR056w - yeast (Saccharomyces cerevisiae)>GP:SC9499X_12 S;cerevisiae chromosome XVI cosmid 9499; Unknown; YP9499;12, unknown, len:338, CAl: 0;12, similar to S44455, transcription factor BTF2 chain p34, (29;3% Identit	0.64
SL197m13	AF003134	Caenorhabditis elegans cosmid ZC581.	0.99	<NONE>	<NONE>	<NONE>
SL197i7	U43400	Human herpesvirus-7 (HHV7) J1, complete virion genome. Sindbis virus sequence complementary to 26S messenger RNA.	0.99	<NONE>	<NONE>	<NONE>
SL19i7	V00073		3.2e-09	<NONE>	<NONE>	<NONE>



TABLE 2

Seq. Name and/or Other Seq. Name.	BlastN vs. Gb (nearest neighbor)			BlastX vs. NRPdb (nearest neighbor)		
	Accession	Hit Description	P(V)	Accession	Hit Description	P(V)
SL201m13	AB001684	Chlorella vulgaris C-27 chloroplast DNA, complete sequence.	0.0013	SIU05069_1	Simian immunodeficiency virus SIVRHE543 clone 5-4 envelope glycoprotein (env) gene, V1 region, partial cds	1.0
SL201i7	AB001684	Chlorella vulgaris C-27 chloroplast DNA, complete sequence.	0.0014	HUMLTBP_1	Homo sapiens (clone H 4;4) latent transforming growth factor- beta binding protein (LTBP-1L) gene, partial cds; Latent transforming growth factor-binding protein	1.0
SL204m13	Z49910	Caenorhabditis elegans cosmid F44G4, complete sequence.	1.0e-11	CEF44G4_1	Caenorhabditis elegans cosmid F44G4, complete sequence; F44G4;1; Similarity to 35;1KD hypothetical yeast protein (Swiss Prot accession number P38805); cDNA EST CEMSE65F comes from this	5.6e-72
SL204i7	Z49910	Caenorhabditis elegans cosmid F44G4, complete sequence.	9.3e-12	CEF44G4_1	Caenorhabditis elegans cosmid F44G4, complete sequence; F44G4;1; Similarity to 35;1KD hypothetical yeast protein (Swiss Prot accession number P38805); cDNA EST CEMSE65F comes from this	2.3e-71
SL28m13	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
SL28i7	Z84469	Human DNA sequence ... SEQUENCING IN PROGRESS ... from clone 390O13; HTGS phase 1.	2.9e-53	<NONE>	<NONE>	<NONE>
SL29m13	AC004465	Homo sapiens 12q24 PAC RPC13-363118 (Roswell Park Cancer Institute Human PAC library) complete sequence.	3.3e-09	MCRA_METFE	METHYL-COENZYME M REDUCTASE ALPHA SUBUNIT (EC 1.8.-.)>GP:MEFMCRC_5 M;fervidus methyl coenzyme M reductase component C genes mcrA, mcrB, mcrC, mcrD, and mcrG, complete cds; Methyl coenzyme M reductase alpha subunit	0.95
SL29i7	AC004465	Homo sapiens 12q24 PAC RPC13-363118 (Roswell Park Cancer Institute Human PAC library) complete sequence.	0.97	MCRA_METFE	METHYL-COENZYME M REDUCTASE ALPHA SUBUNIT (EC 1.8.-.)>GP:MEFMCRC_5 M;fervidus methyl coenzyme M reductase component C genes mcrA, mcrB, mcrC, mcrD, and mcrG, complete cds; Methyl coenzyme M reductase alpha subunit	0.97



TABLE 2

Seq. Name and/or Other Seq. Name.	BlastN vs. Gb (nearest neighbor)		BlastX vs. NRPdb (nearest neighbor)		P(V)	Accession	Hit Description	P(V)
	Accession	Hit Description	Accession	Hit Description				
SL4M13	D42085	Human mRNA for KIAA0095 gene, complete cds.		Human mRNA for KIAA0095 gene, complete cds; KIAA0095 gene is related to S;cerevisiae NIC96 gene	2.0e-27	HUMKIAAP_1		3.6e-12
SL54m13	Z68694	Human DNA sequence from cosmid cU177E8, between markers DXS366 and DXS87 on chromosome X.		Human factor VIII gene L1 element insertion DNA; Unknown protein; ORF; putative	4.9e-28	HUMF8L1A_1		1.2e-12
SL6117	AB001684	Chlorella vulgaris C-27 chloroplast DNA, complete sequence.		Homo sapiens CDO mRNA, complete cds; Immunoglobulin superfamily member; contains fibronectin type III-like domain	0.00083	AF004841_1		1.0
SL6217	AC004153	*** SEQUENCING IN PROGRESS *** Plasmodium falciparum 3D7 chromosome 12 PFYAC812 genomic sequence; HTGS phase 1, 26 unordered pieces.		<NONE>	1.0	<NONE>	<NONE>	<NONE>
SL68m13	AC004157	*** SEQUENCING IN PROGRESS *** Plasmodium falciparum 3D7 chromosome 12 PFYAC293 genomic sequence; HTGS phase 1, 18 unordered pieces.		<NONE>	0.00071	<NONE>	<NONE>	<NONE>
SL6817	AJ226619	Clona intestinalis genomic fragment, clone 17H6, genomic survey sequence.		<NONE>	0.064	<NONE>	<NONE>	<NONE>
SL69m13.fsa	Z22789	H.sapiens CA/GT repeat polymorphism sequence.		Borrelia burgdorferi (section 65 of 70) of the complete genome; Competence protein F, putative; Similar to GB:M59751 SP:P31773 PID:1573409 percent identity: 27;00; identified by sequence	1.9e-22	AE001179_2		1.0
SL6917	AL010138	Plasmodium falciparum DNA *** SEQUENCING IN PROGRESS *** from contig 3-66, complete sequence.		Borrelia burgdorferi (section 65 of 70) of the complete genome; Competence protein F, putative; Similar to GB:M59751 SP:P31773 PID:1573409 percent identity: 27;00; identified by sequence	0.21	AE001179_2		1.0
SL75m13	AC002536	Human Chromosome 11 pac pDJ1075f20, complete sequence.		B;taurus mRNA for complete thrombospondin	1.0	BTRNAT3_1		0.0074



TABLE 2

BlastN vs. Gb (nearest neighbor)			BlastX vs. NRPdb (nearest neighbor)			
Seq. Name and/or Other Seq. Name.	Accession	Hit Description	P(V)	Accession	Hit Description	P(V)
SL7717	AF012886	Buchnera aphidicola UDP-N- acetyl/muramate: L-alanine ligase (murC157), D-alanine: D-alanine ligase (ddlB), cell division protein (ftsA), cell septation protein (ftsZ), and pfs genes, complete cds.	0.40	<NONE>	<NONE>	<NONE>
SL86m13	Z69790	Caenorhabditis elegans cosmid F33C8, complete sequence.	0.020	<NONE>	<NONE>	<NONE>
SL8617	U39368	Acanthonevra sp. 16S ribosomal RNA gene, mitochondrial gene encoding mitochondrial RNA, partial sequence.	0.054	<NONE>	<NONE>	<NONE>
SL90m13	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
SL94m13	X95276	P.falciparum complete gene map of plastid-like DNA (IR-B).	0.0096	SHFORF_1	Shigella sonnei DNA for 26 ORFs, complete cds; ORF1	0.15
SL9417	AL022313	Human DNA sequence *** SEQUENCING IN PROGRESS *** from clone 1119A7; HTGS phase 1.	6.0e-18	A46010	X-linked retinopathy protein (C-terminal, clone XEH.8c) - human (fragment)>GP:S58722_1 X- linked retinopathy protein [3' region, clone XEH:8c] [human, mRNA Partial, 390 nt]; This sequence comes from Fig; 5	5.7e-07



## CLAIMS

WE CLAIM:

1. A method of diagnosing cancer, tumor progression, hyperproliferative cell growth or accompanying biological and physical manifestations comprising:
  - (a) providing a polynucleotide probe that comprises a sequence capable of hybridizing to any one of the sequences shown in SEQ ID NO:1-339 or complement thereof;
  - (b) contacting a biological sample for diagnosis with said probe under hybridizing conditions that permit formation of a duplex; and
  - (c) determining the presence of said duplex.
2. The method of claim 1, wherein said polynucleotide probe comprises at least eight contiguous nucleotides of any of SEQ ID NO:1-339 or complement thereof.
3. The method of claim 2, wherein said polynucleotide probe comprises 8 contiguous nucleotides of the sequences of the clones selected from the group consisting of SL-5, SL-6, SL-9, SL-11, SL-13, SL-68, SL-69, SL-86, SL-90, SL-100, SL-107, SL-124, SL-135, SL-139, SL-143, SL-152, SL-153, SL-173, SL-177, SL-195, and SL-197.
4. A method of diagnosing cancer, tumor progression, or hyperproliferative cell growth comprising:
  - (a) providing an antibody capable of binding to a polypeptide encoded by any one of SEQ ID NO:1-339 or complement thereof;
  - (b) contacting a biological sample for diagnosis with said antibody under binding conditions that permit formation of an antibody-polypeptide complex; and
  - (c) determining the presence of said complex.
5. The method of claim 4, wherein said antibody is capable of binding to a polypeptide comprising at least six contiguous amino acid of a polypeptide encoded by any one of SEQ ID NO:1-339 or complement thereof.



6. The method of claim 5, wherein said polypeptide comprises at least six contiguous amino acids of a polypeptide encoded by any one the sequences of the clones selected from the group consisting of SL-5, SL-6, SL-9, SL-11, SL-13, SL-68, SL-69, SL-86, SL-90, SL-100, SL-107, SL-124, SL-135, SL-139, SL-143, SL-152, SL-153, SL-173, SL-177, SL-195, and SL-197.

7. A diagnostic kit comprising:

- (a) a diagnostic reagent comprising a polynucleotide probe that comprises a sequence capable of hybridizing to any one of SEQ ID NO:339 or complement thereof when said sequence is present in a test biological sample;
- (b) a normal biological sample; and
- (c) instructions for detecting differences that exist between the levels of duplexes in said test biological sample as compared to said normal biological sample.

8. A method of treating a mammal with cancer, tumor progression, hyperproliferative cell growth or accompanying biological and physical manifestations, said method comprising administering to said mammal a composition that comprises a therapeutically effective amount of a polynucleotide comprising a sequence capable of hybridizing under stringent conditions to any one of SEQ ID NO:1-339 or complement thereof.

9. The method of claim 8, wherein said polynucleotide comprises at least eight contiguous nucleotides of any of SEQ ID NO:1-339 or complement thereof.

10. The method of claim 9, wherein said polynucleotide is an antisense construct.

11. The method of claim 9, wherein said polynucleotide is a ribozyme construct.



12. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of any one of SEQ ID NO:2, 5, 49, 50, 99, 100, 115, 116, 118, 130, 131, 140, 144, 145, 146, 157, 158, 159, 163, 164, 165, 166, 177, 178, 180, 211, 212, 213, 218, 219, 220, 221, 229, 232, 233, 242, 243, 248, 249, 254, 256, 257, 259, 272, 273, 277, 288, 289, 292, 293, 316, 317, and 330;
- (b) a polynucleotide encoding a variant of the polypeptide encoded by (a);
- and
- (c) a polynucleotide encoding a protein expressed by a polynucleotide having the sequence of at least one of sequences of (a).
13. A vector comprising the polynucleotide of claim 12.
14. A host cell comprising the vector of claim 13.
15. A composition comprising a polypeptide, wherein the polypeptide is selected from the group consisting of:
- (a) a polypeptide encoded by any one of the polynucleotides of claim 12,
- and
- (b) a variant of the polypeptide of (a).



1/3

Sequence Range: 1 to 1383

10 20 30 40 50 60  
TTA CTC ACT ATA GGG CTC GAG CGG CCG CCC GGG CAG GTG TAA AAA TAA AAT GAC AGT TTG AAC ATA CAA  
AAT GAG TGA TAT CCC GAG CTC GCC GGC CCC GTC CAC ATT TTT ATT TTA CTG TCA AAC TTG TAT GTT  
<E S Y P E L P R G P L H L F L I V T Q V Y L

70 80 90 100 110 120 130  
AAC CCA CCC CAT TCC TAT AGA GCC TAG TAC TAC ACT ACC CCC TCC CAA CTT TAG CCT CCA CAT ATA GTA  
TTG GGT GGG GTA AGG ATA TCT CGG ATC ATG ATG TGA TGG GGG AGG GTT GAA ATC GGA GGT GTA TAT CAT  
<V W G M G I S G L V V S G G G L K L R W M Y Y

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TAC ACG AAC CTT GTG TTT TTT GTG AAG TAT TTA ACA CGA CTT ACT TTA GTA AAG GTA CTC ACA AAT ACC  
<H A Q F V F F V E Y I T S F S I M E M

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TAA AAC TCA AGT AAA CAT GGA AAA TGG ATT TTA AGA TCG GTG AAA TTA AAC CTC TCA AAG GTC TCG TTT

280 290 300 310 320 330 340  
GGA CCT TTT ACC TAA AAT TCT AGC CAC TTT AAT TTG GAG AGT TTC CAG AGC AAA GGG CAC AGA TCC CAG  
CCT GGA AAA TGG ATT TTA AGA TCG GTG AAA TTA AAC CTC TCA AAG GTC TCG TTT CCC GTG TCT AGG GTC

350 360 370 380 390 400 410  
GCA TAA CAA CGC TTT GCG TAT ACA GCA ACC AAT ATC TTG TCA ACC CAA GAA AGT TCC TCC ATT GAT ACC  
CGT ATT GTT GCG AAA CGC ATA TGT CGT TGG TTA TAG AAC AGT TGG GTT CTT TCA AGG AGG TAA CTA TGG

420 430 440 450 460 470 480  
TAG TAG AAA TAG CCC AGT TTT TAA AGT CCT CAA AAC TGT AAC AAA TTA CTT GTT TTT AAA ATT TAA CTT  
ATC ATC TTT ATC GGG TCA AAA ATT TCA GGA GTT TTG ACA TTG TTT AAT GAA CAA AAA TTT TAA ATT GAA

490 500 510 520 530 540 550  
AAA TTA ATA CAA TCA GAT TTT TGT GTT ATT TGG GTA TTA GAG TAT GTT AAA GCA CAT ATA TCC CAG AGA  
TTT AAT TAT GTT AGT CTA AAA ACA CAA TAA ACC CAT AAT CTC ATA CAA TTT CGT GTA TAT AGG GTC TCT

560 570 580 590 600 610 620  
CAT AGA GTT TCC GTT TCA AAA AGT CAT GCA TTC ATG TGT GCT AAT GAC AAT CCT ATC CTG ACC CGC TAT  
GTA TCT CAA AGG CAA AGT TTT TCA GTA CGT AAG TAC ACA CGA TTA CTC TTA GGA TAG GAC TGG GCG ATA

630 640 650 660 670 680 690  
GTG ACT TGT ATC TCT AAA CCA TAG GCT TTC CTG AAT TTT ATC TGT TAA TTT AAC CCT GAT TTC TCA GCA  
CAC TGA ACA TAG AGA TTT GGT ATC CGA AAG GAC TTA AAA TAG ACA ATT AAA TTG GGA CTA AAG AGT CGT

700 710 720 730 740 750  
GCA GCT TCT CTT TGT AAA TAG ACT TGC CTC TTC TGT GTC TGA CCT CTG CTC CTA ATC AGA TTA ACT  
CGT CGA AGA GAA ACA TTT ATC TGA ACG GAG AAG ACA CAG ACT GGA GAC GAG GAG TAT TAG TCT AAT TGA

760 770 780 790 800 810 820  
CAG ATA AAG CTG CTT CAG GGA AGA GGT CAA AAC CGT TGC CAA AAA TAG TAG TTG CCC TAC TTC AGT CTA  
GTC TAT TTC GAC GAA GTC CCT TCT CCA GTT TTG GCA ACG GTT TTT ATC ATC AAC GGG ATG AAG TCA GAT

830 840 850 860 870 880 890  
TTT TCA ACA GAG TAG CCA GGA GAT CCT GTT CAC ACC AAA GTC CAA TCA GCC CTA CTG TTA GCA CTC TGC  
AAA AGT TGT CTC ATC GGT CCT CTA GGA CAA GTG TGG TTT CAG GTT AGT CGG GAT GAC AAT CGT GAG ACG

900 910 920 930 940 950 960  
TCA CAA GCC TCC AGT GGC TTC CGA CCT CAC TCA CAG TAA AAG CCA AGT CAT CCT TTA GCC TAT GAT GTC  
AGT GTT CGG AGG TCA CCG AAG GCT GGA GTG AGT GTC ATT TTC GGT TCA GTA GGA AAT CGG ATA CTA CAG

970 980 990 1000 1010 1020 1030  
CTA CAT GAT TTG AAT TCC CTT CCA TTG ATT TTT GTC ACT GAT TTT TAA AAA TCC AAA TTC ATT CTC ATA  
GAT GTA CTA AAC TTA AGG GAA GGT AAC TAA AAA CAG TGA CTA AAA ATT TTT AGG TTT AAG TAA GAG TAT

1040 1050 1060 1070 1080 1090 1100  
CAG CTG AAT TGT CCT CTT TGC TTT AAG TAT GCC AGG ATT ATT TCT ACC TCA GGG CCT TTG CAC TTG ATA  
GTC GAC TTA ACA GGA GAA ACG AAA TTC ATA CGG TCC TAA TAA AGA TGG AGT CCC GGA AAC GTG AAC TAT

1110 1120 1130 1140 1150 1160 1170  
TTC CCT TCA CCT TTT CCA AGA TAG TTA TTC CCT CAC CTC AGT CAA GCC TTT ATT TAG ATG CCC CCT TCT  
AAG GGA AGT GGA AAA GGT TCT ATT AAT AAG GGA GTG GAG TCA GTT CGG AAA TAA ATC TAC GGG GGA AGA

1180 1190 1200 1210 1220 1230 1240  
CAT CAA GGC ATT CTC TGA TCT CCT TAT TTA AAT GTA TGA CAC CCC TTC TTT GCT TTA CAT TTA ATC AGA  
GTA GTT CCG TAA GAG ACT AGA GGA ATA AAT TTA CAT ACT GTG GGG AAG AAA CGA AAT GTA AAT TAG TCT

1250 1260 1270 1280 1290 1300 1310  
ACA TGT GTC ACT ATC TAG CAT ATA ATA CAT TTG CTT GAC CTC TTT TGT TTA CTG TCT ATG CCT CCT GAA  
TGT ACA CAG TGA TAG ATC GTA TAT TAT GTA AAC GAA CTG GAG AAA ACA AAT GAC AGA TAC GGA GGA CTT

1320 1330 1340 1350 1360 1370 1380  
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FIGURE 1



2/3

Sequence Range: 1 to 1815

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TGA AAA ACA AGT AAA ACT AAA AAC CTA TTA CGT TTT AAT ATC TAA AAA ATT TTT AAT ATA AGT TTC TTA

70 80 90 100 110 120 130  
ACT GAG TGC AAG ACA ATC TTT CTA GGT TAA AAA ATA TCT TAT AAA CCT GAA TTG TCA ATT ATT ATT GTA  
TGA CTC ACG TTC TGT TAG AAA GAT CCA ATT TTT TAT AGA ATA TTT GGA CTT AAC AGT TAA TAA TAA CAT

140 150 160 170 180 190 200  
TCC CAG ATG TAT GGA AGT TAA TGG ATA GTC AGT AAC ATA CAG GAC TAG CAG AAG GTT TGT TGT TAT AGG  
AGG GTC TAC ATA CCT TCA ATT ACC TAT CAG TCA TTG TAT GTC CTG ATC GTC TTC CAA ACA ACA ATA TCC

210 220 230 240 250 260 270  
TAA TCT GGA GAG AAG CCA GGT AAG TGG AAT TTG GGA TTT GCT GCT GTT GCC AGA AAG CAG CAC AGA GAC  
ATT AGA CCT CTC TTC GGT CCA TTC ACC TTA AAC CCT AAA CGA CGA CAA CGG TCT TTC GTC GTG TCT CTG

280 290 300 310 320 330 340  
ATG GTA AGT GGC AAG ACC CAG GTA ACT AAA ACA ACC ATG TCT TAG TCC TTT TAT GCT GCT GTA ACA GAA  
TAC CAT TCA CCG TTC TGG GTC CAT TGA TTT TGT TGG TAC AGA ATC AGG AAA ATA CGA CGA CAT TGT CTT

350 360 370 380 390 400 410  
TAT CAC AGA CTG AGT AAT TTA TAA TGA ACA GAA CTT TAT TTG TCT TCT GGT TCT GGA GAC TGG GAA ATC  
ATA GTG TCT GAC TCA TTA AAT ATT ACT TGT CTT GAA ATA AAC AGA AGA CCA AGA CCT CTG ACC CTT TAG

420 430 440 450 460 470 480  
TAA GAG CGT GGC ATT GAC ATA TGG TGA GGG CAT TTG TGC CTC ATC ATC CCA TGA CAG AAG ATG GAA ATG  
ATT CTC GCA CCG TAA CTG TAT ACC ACT CCC GTA AAC ACG GAG TAG TAG GGT ACT GTC TTC TAC CTT TAC

490 500 510 520 530 540 550  
CAA GAG AGC TCA AAA GCA AGA GAG CAA ATG GGG CCA AAC TTG CTT TTT ATA ACA AGC CAC TCT TGT GAT  
GTT CTC TCG AGT TTT CGT TCT CTC GTT TAC CCC GGT TTG AAC GAA AAA TAT TGT TCG GTG AGA ACA CTA

560 570 580 590 600 610 620  
AAT GAA CCA ACT CAA ACA ATA AAG ACA TAA ATC CAT TCA TGA GGG CAG AGC CCT CAA GGA TGA ATC ACT  
TTA CTT GGT TGA GTT TGT TAT TTC TGT ATT TAG GTA AGT ACT CCC GTC TCG GGA GTT CCT ACT TAG TGA

630 640 650 660 670 680  
TCA CTT CTT A ATG GCC TCA GCT TCT AAT ACC ATC ACA ATA GTA ATT CAG TTT CAA CAT GGG TTT TAT  
AGT GAA GAA T TAC CGG AGT CGA AGA TTA TGG TAG TGT TAT CAT TAA GTC AAA GTT GTA CCC AAA ATA  
M A S A S N T I T I V I Q F Q H G F Y>

690 700 710 720 730 740 750  
AGG GAC GTT GGA ACC ACA GCA AAC TGT AAC CAT TTT GAT TTC CTT ATT TGC ACC ATT TTA AAA AAA CCT  
TCC CTG CAA CCT TGG TGT CGT TTG ACA TTG GTA AAA CTA AAG GAA TAA ACC TGG TAA AAT TTT TTT GGA  
R D V G T T A N C N H F D F L I C T I L K K P>

760 770 780 790 800 810 820  
ATT TAT TTA ACG ACT GTT TAT TCA GTG CCT ATT CTG TTG TGT TGG GGA CTA GAG GTA ATT ACA AAG GGA  
TAA ATA AAT TGC TGA CAA ATA AGT CAC GGA TAA GAC AAC ACA ACC CCT GAT CTC CAT TAA TGT TTC CCT  
I Y L T T V Y S V P I L L C W G L E V I T K G>

830 840 850 860 870 880 890  
ATA AGA CAA ACA GTC ACC CAC TCT GGT GAT GCT TCC CTT ATC TTC ATA ATG CAT TTG ATC CTG TG ATT  
TAT TCT GTT TGT CAG TGG GTG AGA CCA CTA CGA AGG GAA TAG AAG TAT TAC GTA AAC TAG GAC AC TAA  
I R Q T V T H S G D A S L I F I M H L I L>

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1040 1050 1060 1070 1080 1090 1100  
GTC TCA GAA AAA TAC AGA AAA TGG TTA AAG ACA GGA GGA TAC TAC CCT GAT TTC TCT GTT CAT TAA AGA  
CAG AGT CTT TTT ATG TCT TTT ACC AAT TTC TGT CCT ATG ATG GGA CTA AAG AGA CAA GTA ATT TCT

1110 1120 1130 1140 1150 1160 1170  
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TGT CGA TAA ACC CCC CTT TTG GAC TAT GTT AAT AAA CTC GTA CAC CGA ATT TCT AAT CTG GAT ATT TGT

1180 1190 1200 1210 1220 1230  
ATT CAG GAG CAT CTT CCA GCA AAC TGT GTG AGA ATT CAC AGA AAT AAA CCT GGT AGG TTT GTG CTA TGT  
TAA GTC CTC GTA GAA GGT CGT TTG ACA CAC TCT TAA GTG TCT TTA TTT GGA CCA TCC AAA CAC GAT ACA

1240 1250 1260 1270 1280 1290 1300  
TAT TCA CAT GGG CTG TTA ACT CTT TTC CAT TCC TAG GTC CTT TAT TTC CCT GCT CTC CTC AAT CTC ATG  
ATA AGT GTA CCC GAC AAT TGA GAA AAG GTA AGG ATC CAG GAA ATA AAG GGA CGG GAG GAG TTA GAG TAC

1310 1320 1330 1340 1350 1360 1370  
CTC TTG AGA TTT TTA ACT ATA TTA CTT CTT TAC AAA GTC ATC TTC AAA ATG ATT CAT TTT GGA TAG CAA

FIGURE 2



## SL5 Immunohistochemistry Comparison of Tumor vs Normal

	1	2	3	4	5	6	7	8	9	10
A	Adrenal	Adrenal	Adrenal	Ovary	Ovary	Ovary	Ovary	Breast	Breast	Breast
Tumor	(+4)	(++4)	(+2)	(++4)	(++4)	(+4)	(++4)	na	(+4)	(+1)
NC	(-)	(-)	(-)	wp	(-)	(-)	(-)	na	(-)	(-)
Normal	(+2)	(+2)	(+2)	(+1)	(+1)	na		(++1)	na	na
NC	(-)	(-)	(-)	(-)	(-)	na		(-)	na	na
B	Colon	Colon	Colon	Colon	Prostate	Prostate	Prostate	Prostate	Uterus	Cervical
Tumor	(++4)	(++4)	(++4)	(+4)	(+2)	(++3)	(+3)	(++3)	(++4)	(+2)
NC	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
Normal	(+2)	(+1)	(+2)	(++3)	?	(++2)	(+1)	(++2)	(+2)	(++2)
NC	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
C	Kidney	Kidney	Kidney	Kidney	Pancreas	Pancreas	Pancreas	Pancreas	Lelomyo-	Lelomyo-
Tumor	(+4)	(+4)	(+4)	(++4)	(++4)	(++4)	(++4)	(++4)	(+4)	(++4)
NC	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	EDG	EDG
Normal	?	?			(+1)	(+1)	(+2)	(+1)		
NC	(-)	(-)			(-)	(-)	(-)	(-)		
D	Liver	Liver	Liver	Stomach	Stomach	Stomach	Lymphoma	Lymphoma	Lymphoma	Lymphoma
Tumor	(+4)	(+4)	(+4)	(-)	na	na	(+4)	(+2)	(+2)	(+1)
NC	(-)	(-)	(-)	(-)	na	na	(-)	(-)	(-)	(-)
Normal	na	na	na	na	na	na	(+1)	(+1)	?	(-)
NC	na	na	na	na	(-)	(-)	(-)	na	(-)	(-)
E	Seminoma	Seminoma	Seminoma	Thyroid	Thyroid	Thyroid	Thyroid	Fibro-	Fibro-	Fibro-
Tumor	(+3)	(+4)	(+4)	(+4)	na	na		(+4)	(+4)	(++4)
NC	(-)	(-)	(-)	EDG	wp	EDG	EDG	(-)	(-)	(-)
Normal	(+2)	(+1)	(+2)	(+1)	(+1)	(+2)	(-)	(-)	purk(+)	(+2)
NC	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	na
F	Melanoma	Melanoma	Melanoma	Chorio-	Carcinoid	Chorio-	Basal Cell	Basal Cell	Basal Cell	Germ Cell
Tumor	(++4)	(+4)	(++4)	(+4)	(+4)?	(+1)	(++3)	(+3)	(+1)	(++4)
NC	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	EDG
Normal							(+1)	(++1)		(+1)
NC							(-)	(-)		(-)

Staining Intensity: -, no staining; + weak; ++ medium; +++ strong staining  
 Staining Percentage: 1: 0-25%; 2: 26-50%; 3: 51-75%; 4: 76-100%  
 For example: (++) stands for 51-75% of cells have medium staining  
 NC: Negative Control; na: no tissue materials on slides

FIGURE 3



## SEQUENCE LISTING

<110> Zhang, Jimmy  
Astel, Jon H.  
Carroll III, Eddie  
Endege, Wilson O.  
Ford, Donna M.  
Monahan, John E.  
Schlegel, Robert  
Steinmann, Kathleen E.

<120> GENES AND GENE EXPRESSION PRODUCTS THAT  
ARE DIFFERENTIALLY REGULATED IN PROSTATE CANCER

<130> 200130.463

<140> US

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<160> 339

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ggaanaacag ntcncaang ctntattnga gacagagcta tgacannnnc ntntntactc 240  
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ccttttgtag ccttttctct tagtctcctc ttcccggtag ttggtaaaaa gaggtgaatt 180  
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cccagncttt ttaattaaag gaccggaaac cntggccttt aactttggcc agtggtnccg 960  
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ttcacctgcc	tcagcctccc	agagtgtctg	gattactcct	aagctcaagc	aattcacctg	300
cctcagcctc	ccagagtgtc	gggattactc	ctaagctcaa	gcaattcatc	tgcctcagcc	360
tcccagagt	ctgggattac	tcctaaactc	aagcaattca	cctgcctcag	cctcccagag	420
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tgggaaaccc	caggngngtn	tngcaaaggc	caagggaaag	gcctcaaggg	ggggcatgaa	960
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gctt						1024

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ttttaaacia	catagtctct	ttctctgtc	tctttctctt	tccctctctc	tttctctttc	360
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tttgnccctn	tnnaacntta	aattngngnt	ttnnncncan	annngncngt	ttttcaattc	900
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&lt;211&gt; 1024

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&lt;223&gt; n = A,T,C or G

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caccgtgccc	agcctacttt	ctaattaacc	aaaaaaaaaa	aaaaaaaaaa	aaaaaaagcg	360
gcgctgaat	tctattctag	aattaagcgg	ccgctgaatt	ctagacctgc	ccgggcggcc	420
gctcgagccc	tatagtgaat	cgtattagga	tgggaaggcg	aattctgcag	atatccatca	480
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ccgategncc	ttccaacagt	tgcgcagcct	gaatggcgaa	tggacgcgcc	ctgtagcgcc	720
gcattaancc	gccggcgggt	gtgggtggta	cncgcancg	tgaaccgnta	cacttggcan	780
ggncctacgg	cccgncttcc	ttegttttct	ttccttttcc	ttnttggnc	cgtttcggcc	840
gggttttccc	cggtnaagct	nttaaattn	ggggcttccc	ntttangggg	tcccgaantt	900
anngecttta	acgggaccnt	ggancccaa	aaaactttgg	tttangggg	angggttcac	960
cgtaannggg	nccatttgcc	ctggntaaac	nggttttttc	ccccnttgac	ntgggnanc	1020
cccg						1024

<210> 10  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

gccgtcnaga	nccatgcnnn	agcngcgcc	ngtgtnatgg	nnaantgcag	aanacgncc	60
ncnatcctaa	tacgactcac	tatagggtcn	gagcggncga	ccggacagng	ntnnnggtgg	120
ctnatgccta	naatcccagn	acttggggag	gcnaggatc	tctntntgg	tggatcactt	180
gagggcagga	gttaanagac	catcctggcc	aacatgatga	aacctgtct	ctactaaaaa	240



tacanaangt	agctgggcgt	ggtggcatat	tcttacaanc	ccagctactt	gggaggctga	300
ggcaggagaa	tcacttgaac	ctaggaagca	gaggttgcag	tgggccaaaga	tcacaccact	360
atactctaaa	gggcgaattc	cagcacactg	gcgnccgtta	ctagaggatc	cgngctcggg	420
nccaagcttg	gcgtaatcat	ggacanagct	gttncctgtg	tgaaatgggt	aancgctnac	480
aanntnacac	aacatacnag	ccggaagcat	aaagngtnaa	gcctggggng	cctaattgagt	540
gagctaactc	acattaattg	cgttgcgctc	actgcccgtc	ttncagntcg	ggaaacctgc	600
cgtgccagct	gcattaatga	atcggccacg	cncnggggag	aggcggantg	cgaatgggag	660
cttcttncgn	ttctcgttta	ctgactngat	gcggttcggc	ccattgnntg	cagcaaagcg	720
gnatcngctc	acttnaaagg	cnggnaatnc	cggttntccc	cntgaatccg	ggggattacc	780
gcaggtnaag	aacctatggg	anccaaaagg	ccagctaaaa	gggcccgga	acccggaaaa	840
aaggcccngt	tgggtggcgt	tttttcanaa	ggttccgccc	ccttgaccgn	ngcnttacaa	900
aaattnggag	gcnttaaggt	cnnaantggg	ggaaaccccc	cgggaaattt	caggntnccc	960
nggggtttcc	cctgggaagt	tncttngggg	gctttccnnt	tcnaaacctg	gcgnttaccg	1020
gnaa						1024

&lt;210&gt; 11

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 11

gtncgtctag	atgcatgctc	gagcggccgc	cagtgtgatg	gatattctgca	gaattcgccc	60
ttgagcggcc	gcccgggcag	gtacgcgggg	gggcatttcc	ctgacgactc	gtgtgtgccc	120
tgggggagcg	gtagatggcc	cagccccaag	tgttccgac	ttcctgcca	aacatattct	180
gtgacggaaa	gcctatgttg	acctcgtccg	gcactcaagg	cgtgggcagc	ggcctaactg	240
ctgctgcggg	aacacagtcg	cgttgaatgc	tattctcaag	acagacaaaa	cagtgggaag	300
acactacgcc	aagctgctaa	ctccctggcc	attgcccggac	tctttcaccc	ccatggactt	360
tccgctggca	ttttaaacaa	catagtttct	tttctctgtc	tctttctctt	tctctctctc	420
tttctcttcc	tctctctctc	tctctctctc	tctctctctg	tcaatctcat	aatttctctc	480
tctcgtgcca	cgttcccacc	caacgctctc	tcgcccactt	ctactggggc	ccacttctct	540
tcctgctctc	tctgtctcaa	cgtgattgac	tttcttgtgc	tgcccaggac	ttcttgccca	600
cgtgcgcctt	caaaacggta	agagctgcaa	ctgaacgtgt	ganacatggg	gcagataggc	660
tgagaggcng	cgggaaaaat	gcccattgaa	ctcaaagtac	tcnngccggc	gancacgcta	720
angggngant	ttcaagcaca	nntggcgggc	cgttactaan	tggattcgaa	cctccggtag	780
caaaagcttg	ggcgtaatac	atgncaanaa	gccgttttcc	ngtnttaaat	ttgttnancc	840
gctcananat	tccanacaan	cnattacnan	gccgggaaan	ccaanaaagt	tgtaaaacc	900
ctgggggttg	ccnnaatgan	ttgangctaa	ntccnnttta	atttncnttg	cncnnaangg	960
ccggtttttc	cattcgggaa	acctgtncgt	nccaanctgn	atttantgaa	tcgggcaaac	1020
tccc						1024

&lt;210&gt; 12

&lt;211&gt; 957

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(957)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 12

actttttttt	tttttttttt	tttttttttt	tttttagctt	tattttttatt	gttgacacta	60
ttacagatag	aatgaccaca	accatattaa	caaaccacaaa	acctgtgcac	agaaacaaga	120
tgaagaaaat	atatcaagat	gttaaccaca	ctctttggat	ggtgaaaaca	tgggtgagtt	180
tctctttctac	atttctgtaa	cttcaaagtt	tctataatga	acacatttca	tatataatgg	240
aaatatatgt	agtaaagggt	gactaccaaa	acactagaat	gatgaccttt	caaggaaacc	300
gaaacaaaat	aaccataatc	ccacaacaac	cacacaacta	tttcttgttt	ttcatctttc	360



ttcccatctt	tgacatttat	gcatacttat	cactaacacc	ctaataatca	cagactagt	420
cacagatcaa	gatgttaaca	gttaattgtt	gttgggtgtt	gggaatatgt	gtgaattttc	480
tttactgaat	ttccaaagtt	ttgtatgagt	atgtantata	tttgtaatgg	aaaatacata	540
cataagaatt	tantacaaa	nacaccaaag	attatttaag	gaatttgaga	caaaaatatt	600
tanccaaatt	cccacaatga	caacaccaan	tttaggtant	ttccacatct	ntttcaaatt	660
taanggcttt	angcacacat	attttaaacac	tgggtanccac	aagcngtggt	gcnccggaan	720
caanngntng	agggaaacca	ggtncaggga	tggtnancan	taagttgtta	anggggttgg	780
gaanannngn	aattttttta	aacanattta	cnttaanttt	ccaagttttt	ccnccgggga	840
anntttttng	gccaccaatg	ggggnncccc	nttatanccn	ngtnanccgg	ggacattttt	900
tnnnngggaa	atttnganaa	atttagagtg	ngaaangntt	tttacccean	agtnccn	957

<210> 13  
 <211> 1020  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1020)  
 <223> n = A,T,C or G

<400> 13						
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aagggacgct	tatggagaac	ctcttaaaga	tattgtgagc	attctactca	ttacttaggg	180
aaagagagcg	ggtgttggtc	caactctggc	ttttgtgcca	ggtaggagtt	ggtcctgagg	240
ccgccatctt	gaccatactg	gacctgtttt	aagggttttc	tctaaaaaaa	tttttagattt	300
gtcaatctgt	gctcctgcag	gggatgctat	gtccaaaatg	cccaggattt	gtttttttct	360
gtctttctctg	agacattccc	tgcccagcta	cccaaggaat	ccttcaaacg	agcaaactctg	420
accatatctt	ctatggtcag	attaaaatct	tccatggctc	cctattgctt	atgggacaaa	480
atcaaaaattc	ctgagtcctg	tctaaaagg	gttttgatgat	cttgacctgc	tgactttgcc	540
agccttcttg	tcagactctc	gtgtcatgct	ccgcctagac	tatgagcctg	ctatttcata	600
ctatgtagct	ttgtaaagtc	ccagaaaatg	ctgggctctg	actcttttat	aactttacat	660
atactgttcc	atctgcctgg	aatgccttct	acttgtctgt	ccagcaaatt	ctcaactcat	720
ctcttaaggg	cccagcttca	attgccgcct	cctancataa	gtcttccctt	gatttcccan	780
gcagnaatta	nttcccgcgt	accccgggga	ntcccaatca	gtttgtgctt	tcaaaactga	840
tggnnngact	tccctgaaat	ttgggttacc	ncaaaacgaa	atgggtgaat	ccnnttcccc	900
cgggggggct	gcaattgcac	ccttttttaa	aggggaaccc	tgnaantccc	aatggnttaa	960
atttgaaccc	cttaanggc	tnanttcnat	tgagcaactt	naaaaggggt	tttttttttt	1020

<210> 14  
 <211> 1013  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1013)  
 <223> n = A,T,C or G

<400> 14						
gtgtcgatgc	atgctcgagc	ggccgccagt	gtgatggata	tctgcagaat	tcgccctttc	60
gagcgccgcg	cggggcagg	acctcattag	taattgtttt	gttgtttcat	ttttttcnaa	120
ngtctccctt	ctacnagctc	acctgagata	acagaatgaa	aatggaagga	cagccagatt	180
tctcctttgc	tctcngctca	ttctctctga	ancctagggt	accatttttg	gggaccattt	240
ataggcaata	aacacagttc	ccaaagcatt	tggacagttt	cttggttggt	tttanaangg	300
ttttcctttt	tctnancctt	ttcctgcaaa	aggctcactc	agtcctctgc	ttgtcantg	360
gactgggctc	cccagggcct	aggctgcctt	cttttccatg	tcccacccat	gagccctcna	420
ctagacagct	cantaagcct	ggcccttcat	tctgcgctgt	gttcttctct	ngtgaaaatc	480
caatacctct	tacctctctt	gcatgcaaa	attctcaagg	attgtcagac	ttcaaacgta	540
acagcagaac	caccagaagg	tccnataaat	gcagtagtga	ccttctcaag	ctgtcaggct	600
tttaaatagg	atttgggatt	taatgcnatg	tattttttaa	ggaaagaaat	aagagtgcen	660



agttttaaaaa	tgcattgtctt	ttagccaatt	cagaatcctg	cccccaaact	tttttaaaaa	720
gtcaagacag	ataaagcttt	ggggganacg	gaaaaaann	gnnnaaaaaa	anaaagtact	780
tcgggcggna	acnacgctaa	gggnnaattc	agcananggg	gggccgttac	aagnggggttc	840
nanncccgtt	acnaancctt	gggggtttta	caagggcnaa	ancnggttnc	cggggntnaa	900
aattgttacc	cgcnaaaaa	tccanaaaaa	natncgaacc	cggaaancca	taaanttnn	960
aancccnggn	ggccnaaggg	agnngnnaac	ccnaataaa	tggnttggn	cnt	1013

&lt;210&gt; 15

&lt;211&gt; 951

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (951)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 15

accctagggc	aaatactgag	cagggtaaaa	ttcccagaat	accactaga	agcgtggaat	60
atatcaatat	cctaggaaga	agattcagca	caccaaattt	cccattactg	ataacagctc	120
tgaaggcata	ataagaaagt	gagtgatcag	aagagcagag	aaatgacttg	ttccagtcac	180
tgccatcttg	tttacccttt	cagtggttcc	cttacccttt	tccccactgg	gcatacagct	240
catctctctc	tgagtccttt	tctgctttcc	tcttttgctc	taaacgttcg	agtttcaa	300
tctctttacg	accagactta	tctcgaaata	cggtttcagc	atattgaaat	tcagctgcaa	360
aggaaaatta	tactcaaata	tcaggatcaa	aatcagaaat	aacattctaa	gagatcaa	420
caaccgcttg	ggattcta	gctagataag	aacttctgca	gccagaccaa	agtagttcct	480
accaacatct	tggtgcatat	tggaactggg	cccaagaaat	ggcattttcc	tttttttttt	540
ttttgagatg	gagctcact	ctgttgccca	gggttgagtg	cantgggcgc	gattttggct	600
cactgcaacc	tccacctccc	aaggttcaag	cgatttctct	gtctcaagcc	tcctgagtna	660
gctggggaat	acagggcata	cnacancatg	cctggctagt	tttttttttg	gaattttggn	720
tagagacagg	ggtttcatca	nggttngccc	aggcctggtn	cttggaactn	anagaccctc	780
aggntggatt	caacccta	tccgggtac	caaaaggtng	ncnggggatt	acangcattt	840
anncaacngn	gccttngggc	naaaatggna	anttttcang	aagggaaagc	agcnnntggg	900
atcccnggnn	naantttcac	caaggcctta	aaccagggnc	gtaaatttgt	t	951

&lt;210&gt; 16

&lt;211&gt; 1008

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (1008)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 16

gtgcgatgca	tgctcgagcg	gccgccagtg	tgatggatat	ctgcagaatt	cgccctttcg	60
agcgcccgcc	cgggcaggta	cattacttgg	tgtaaacatt	gttggcagtg	gtagcccctt	120
ttcagaaagc	aacttgctgt	aagtcagggt	gtccgttcca	accttcagct	agtgaagagg	180
tagtaacaaa	tggtaaacaa	gagaatgatt	gtttaaacct	atctgtggac	acttaatgca	240
actgttttaa	aatgataatc	acgagttatg	tagcaacgtg	gaaatatatt	tacagaacat	300
taagtggaga	aagcaggaca	cgaaagtata	tttatactac	agttataact	caacagttca	360
tttatatgct	gttcatttaa	cagttcattt	aaacagttca	ttataactgt	ttaaaaatat	420
atatgcttat	agtcaaaagc	tggttggttg	ttgttggttg	aggcttatag	ttgagcatta	480
ttttctttaa	tttcttgaat	gttctttatg	gtagtgttac	taaaaagttt	atgatcacat	540
tttcattgtg	aacataattt	gaactcatta	tcacacactt	ggaaaataca	gaaaagtggg	600
ggaaaaaaa	tcatatcccc	ancatccaaa	gacatatact	ctcctcttat	cctgttcaat	660
cctggtttcc	ggtgcacaag	gtttatgatt	ataactgtgt	caaaatgtat	aatcaaaata	720
gctgttacat	taccttggtg	gnantaaggg	taaatacctt	caccttaaat	ttttcaaaan	780
gttcccaana	ataaagggtc	ggataacagt	ggtataagtg	tgtcccaatt	gggggtgcan	840
aatacattcc	cangngggaa	aatttnnaaa	tnaagttaaa	ttattttaaa	aaatttccaa	900
aattcccaan	anctaanaac	taangggnaa	aaacctngat	cgggntnccc	caaacnngtt	960



taantgnnac nccttgggaa aanaagnttt aaaaanggtg gcaaaaag

1008

<210> 17  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien  
 <220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

<400> 17

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tttnnanagg	ncgcncgggc	angnantcct	ccncctntg	ccatnannca	cggnnanaan	120
cngcagtggc	actaantntg	agacaatcct	ncaaaccagc	ttcatgtcgc	tncacttntc	180
nnngtncaag	angaggggcca	gganggggaaa	catcacanc	gcgctaagnc	cngntccggg	240
nngtcagcat	nnntctgtt	ncaanncccn	cgntcgggtc	cctcacccta	ctctgcctcc	300
natgactttg	cncctcagac	ntcntggaac	naaggnttcc	ngggggggcac	accgcgtccg	360
gccggnmntg	tctcggggcc	acttggcggtg	tgtgataaat	caatcaagct	gttnanntcg	420
nacgagtctc	nggtngcctg	cananntaag	cctcatcatc	agagcctttc	ctcaaaactg	480
gantcccana	tgtcatcagg	ttntggttnt	tttcagccan	naggaagccc	tcngcattga	540
atccnagaac	ttgggcatgg	tnnaagatct	acaagntnga	atacgctgcc	cgcnanaanc	600
nttcaaccct	aacaggaagg	tnggattcaa	ggaagggtga	anggnncatt	annccacnec	660
gggggnacca	gggagntana	antanncatn	nntttgggtt	cgcccnccga	aggggnnttaa	720
cccccggaat	tnnnntttng	ntnaaggggg	gnnnngggna	aatcccnngt	cnncattttg	780
gaaagggann	ccttnccttn	cnntnggcct	ntaaaagnnt	tancaanacc	cggnatnntg	840
ttnangggccc	cgnttttcaa	nggggttaan	nnnttngggg	aaccccnnc	cccaaagngn	900
gnnnaanggg	ggnaattccc	aanaaaacng	gggggnncct	tnnnnnangg	gnttcngnnn	960
ccccnaaagg	nnncntgggg	ggnnannann	gnncnaaaaa	gggttcccn	nnnnaaattt	1020
tttc						1024

<210> 18  
 <211> 981  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(981)  
 <223> n = A,T,C or G

<400> 18

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ccactgagga	agtaaaacag	agttttactc	ttgttgccca	ggctggagcg	caatgggtgcg	120
atctcggctc	accgcaatct	ctgcctcctg	agttcaagcg	aggagcaacc	ctacctgatg	180
gactggactt	ctgcctggat	tggagtttga	tcatgcctcc	atatgggtgt	ttaccaggcg	240
tatgcattga	acctgagttt	gtctcttcaa	tacaaggaaa	atctctgccg	cttagtgatt	300
ttccaagaaa	catgagcttc	tgcttttcaa	tgaggaagat	actcagaagt	catgttcgag	360
cactccggaa	aatgtccttg	gagtttcaac	atctcttttg	tcttccacat	ttcattttgt	420
cctgattaaa	gaggaagcca	agttgctgtt	tgtgtggcca	tgtgagcagg	canggagatg	480
gtggctgcct	agaagccaag	agaagtggcc	tcaagatgaa	atctaccttg	ctgggtactgc	540
ccggggcggc	cgcccgggca	aggtacnttt	tttttttttt	gttttttttt	ggcaaaaagg	600
ctgtaaagct	tttttgggga	gaaattttta	tgggncaaan	ttccaacac	aggnagcanc	660
cctgaaacca	attttaagcg	ggtccttccc	ttttaaggct	gttnnaattgc	cccttcaanc	720
ttcctcaagg	ngttttttcac	cctcccnccg	ggattttggg	aaaggcccaa	aantccntgg	780
gnnaanaagg	gacaatctcc	cggnnttaaa	aaccaattnt	ncggggngna	accnggttcc	840
ctgggctann	cncctttaan	ggntnccggg	gcccttttgn	gggggnaatt	ttcaaacggg	900
ncctncattt	tctnaggggg	naancncct	tngggtcann	gggncnannn	cccaagnctt	960
caanccnaa	ntcttttggg	g				981

<210> 19



<211> 980  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(980)  
 <223> n = A,T,C or G

<400> 19

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aaaaaagttt	gggggagat	tctgaattgg	ctaaaagaca	tgcattttta	aaactagcaa	120
ctcttatttc	tttcctttta	aaatacatag	cattaaatcc	caaatcctat	ttaaagacct	180
gacagcttga	gaaggctact	actgcattta	taggaccttc	tgggtggttct	gctgttacgt	240
ttgaagtctg	acaatccttg	agaatctttg	catgcagagg	aggtaagagg	tattggattt	300
tcacagagga	agaacacagc	gcagaatgaa	gggccaggct	tactgagctg	tccagtggag	360
ggctcatggg	tgggacatgg	aaaagaaggc	agcctaggcc	ctggggagcc	cagtccactg	420
agcaagcaag	ggactgagtg	aagccttttg	caggaaaagg	ctaagaaaaa	ggaaaaccat	480
tctaaaacac	aacaagaaac	tgtccaaatg	ctttgggaac	tgtgtttaat	gcctataatg	540
ggtcccaaaa	atggggtaac	ctagacttca	gagagaatga	gcanaganca	nagggagaaa	600
tctggctgtc	cttccaattt	tcaatccgtg	atcccagggt	aagctgggta	ngagggggag	660
ancattngna	naaaaatnga	aacaacanaa	nccagtttac	taaatnaagg	gaacctgccc	720
cngggcgggc	cnccaanggg	ccaaatttca	ancaacanng	ggcgggcccg	ttaccaantg	780
gnattccgaa	gccnccggta	accaangcct	ngngttnaat	ccagnnggnc	aaanccngtt	840
tnccngngt	gnaaattggt	tancccgccc	naanaattcc	acancaacga	atcngaagnc	900
cgggcnagca	tnnangnnta	aancccgngg	ggggcncaaa	agggaaatggn	nccanacccn	960
attaaatnctg	gttgccctg					980

<210> 20  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

<400> 20

cttgggtaccg	ngctcggatc	cctagtaacg	gccgccagtg	tgctggaatt	cgcccttcca	60
tcctaatacg	actcactata	gggctcgagc	ggccgcgggg	caggatttca	gcggccgctt	120
tttttttttt	tttttttttt	tttttttttt	attgntgaca	ctattacaga	tagaatgacc	180
acaaccatat	taacaaacca	aaaacctgtg	cacagaaaca	agatgaagaa	aatatatcaa	240
gatgttaacc	acactntttg	gatggtgaaa	acatgggtga	gtttctcttc	tacattttctg	300
taacttcaaa	gtttctataa	tgaacacatt	tcatatataa	tggaaatata	tgtagttaaag	360
gnggactacc	aaaacactag	aatgatgacc	tttcaaggaa	accgaaacaa	aataaccata	420
atcccacaa	aaccacacaa	ctatttcttg	gttttcatct	ttcttcccat	ctttgacatt	480
tatgcatact	tatcactaac	accctaataa	tcacagacta	gtgcacagat	caagatgtta	540
acagttaatt	gttggtgggt	gttggggaata	tgtgtgaatt	ttctttactg	aattttccaaa	600
gttttgtatg	agtatgtatt	atatttgtaa	tggaaaatac	atacataaaa	tttattacca	660
aaacacccaa	gattatttaa	ggaatttgag	acaaaatatt	taaccxaaatt	cccacaatga	720
caacactatt	ttaggtattt	tccacatctt	ttcattttaag	actttatgcn	cncatattta	780
acactgggat	ccacaagcgt	gtgccctgaa	accaggatan	nggggaaacn	ngatcaagat	840
gttagccagt	agtttggtag	gnggttgga	aatataggga	attttttnaa	aaaaatttac	900
tttatttnen	aaattttccc	cttgggnaag	ggattatggc	ncnccaangg	gngcccccctt	960
aaanacnctg	gttttcngga	cctttttttt	nggggaccat	ttggaaaaaa	ttaangggga	1020
aggt						1024

<210> 21  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien



<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 21  
nagnggcang cncgagcgcg cgccagtgtg atggatatct gcngaattcg cccttcntan 60  
cngnngncac tnaatgcang ngcnaacca tgataaccg agttatgctn agcanaggaa 120  
ctatatgtac agaaacatta agtgnngaaa gccnnacncn anggnanntg aatactacng 180  
tnataactna ncagaccatt nanatgctgc acatttaaca nnnctnncan acagnanatt 240  
ataaanngnt ananntatat atgctnatng accaaagctg tngaggggtg gccgttgaag 300  
gcnnnnngnt nagcattanc atnttacnnc acttgectgn cctntatggc agggttacta 360  
tctttgttac tgatcacgac atcantgcga acntaanacn aacncnntat nacacactng 420  
nnanagcccg aatcgngnng gaacagtatc ntntcnccnc canccnnaga catntncnnn 480  
cctcttaten tgancattcn agnttctgtg cacaggnta tgatnntanc ngtgncaaan 540  
tgnntcttna aantantgc cacatnacct tngaggant atggannaan actctcactt 600  
taaanccnnc aancgacccc nanaanactg tncgtntaac agtgcanaat gtgtgatttc 660  
atagttntgc acacacatnc ccacnggaan cacaggcgtg tgcactgaac attntagagg 720  
ntacctatct gccgacacct aacactacng gtnacggcaa gatcggaacc tntaannggg 780  
ttaacncaa cncatagggat acccngggaa atatgtggcc caccgtttaa acccccgaag 840  
tgccngtgc ccnggacatt gttttcgtgn cggtanttg gttaaanntg ggntnaaaac 900  
cctaattccc cctgggggtt tgccactaaa tttgaaggac cttttggccc tgccaaaatc 960  
annaaccctg gcncanaact ttgggggganc nggnnaggna gggtnnccct ttttttccga 1020  
aggc 1024

<210> 22  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 22  
gtgcgatgca tgcncgagcg gccgccagtg tgatggatat ctgcagaatt cgccctttcg 60  
agcgcccgcc cgggcaggta cttttttttt tttttttttt ttttttttag attccacata 120  
tgagtaaaat catgtggtat ttgacttgcc ttttaaaaca cagtgaagaa tctgtcttac 180  
tttattcagg gtaggagaag ctacctgggc tccccataaa tgagggtgctc catcccatca 240  
tacagcccca tcatattcag tgcttcccag atgacctcct caggggtgca gtagccctct 300  
atgaagatta tgcttaggat aagtatgaga atgccagtct tgggcatgct ctggacatca 360  
ctcagcatcc catcataggt gaggcccagg gaggtgacaa ggacaaagga gtggccagtg 420  
ggatccactt cctttacatc aatgccaaag accagcagca tgcactcgga ggcttacta 480  
aacaacaaag ggaagtggtc ttcataattt tttatgacac tctccaagta tttctgcctt 540  
tgtgatcggc tccttcattt gatacttgaa gagcagaaac tgcaccaaact cagtcacctt 600  
ttcatctatc tcaactctgg gtaaagactc actgtctggc aaggacctgg tagggtgctt 660  
gggactcccc tccttttggc tgcnggagnc ctancagat tgatctaag gaagggaac 720  
aacgacccna ggggaaggag cagggtatc tngagcaacn ctggggaagg atttggggtc 780  
nccatcatca ngcagnaaac tccctcccgg gggtnccctg ggnanttaaa gggatnccca 840  
ggaaggagga nggagggaa agggaggang agggaaaaac naggnntnga aaaagggaacn 900  
cggngggaaa ttggggntta tacaccgcn ncnnnaannn gggngagnc ngngnccng 960  
tcngngnenn gnttccnntt gggngaagnn ggnttctcnn angggncgnn nnnnnnnnc 1020  
cnnt 1024

<210> 23  
<211> 948  
<212> DNA  
<213> Homo Sapien

<220>



<221> misc\_feature  
 <222> (1) ... (948)  
 <223> n = A,T,C or G

<400> 23

acttttttct	tttttttttt	tttttccgtc	tccccaaagc	tttatctgtc	ttgacttttt	60
aaaaaagttt	gggggcagat	tctgaattgg	ctaaaagaca	tgcattttta	aaactagcaa	120
ctcttatttc	tttcctttta	aaatacatag	cattaatcc	caaatcctat	ttaaagacct	180
gacagcttga	gaaggtcact	actgcattta	taggaccttc	tgggtggttct	gctgttacgt	240
ttgaagtctg	acaatccttg	agaatccttg	catgcagagg	aggtaagagg	tattggattt	300
tcacagagga	agaacacagc	gcagaatgaa	gggccaggct	tactgagctg	tccagtggag	360
ggctcatggg	tgggacatgg	aaaagaaggc	agcctaggcc	ctggggagcc	cagtccactg	420
agcaagcaag	ggactgagtg	agccttttgc	aggaaaaggc	taagaaaaag	gaaaaccatt	480
ctaaaacaca	acaagaaact	gtccaaatgc	tttgggaact	gtgtttattg	cctataatgg	540
gtccccaaaa	tgggtaacct	agacttcaga	gagaatgagc	agagnagcaa	aggagaaatc	600
tgggctgtcc	ttccattttc	attccgttaa	cctcaagggtg	anctggtaaa	aggggagaca	660
ttagaaaaaa	aatgaancaa	caaancaatt	actaatgang	tacctgcccg	gggcggccgc	720
aaagggcgaa	ntccaagcac	acngggcggg	ccgttacaan	tnggatctcg	aaccgggtac	780
caaancttgg	gngtaaanca	ngggncana	accggnntcc	cgggggtgaa	aantgtttat	840
ccgccccaaa	attccaaaaa	ancaatanga	aaccggaaan	cataaagtnt	taaaccctgg	900
ggggggccca	aangantgag	ccaaanccca	attnaattgg	gttgggcc		948

<210> 24  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (1024)  
 <223> n = A,T,C or G

<400> 24

taccgccttc	gcattccctag	taacggccnc	cagtgtgctg	gaattcgccc	ttcctatctg	60
tggacactta	atgcaactgt	ttaaaaatga	taatcacgag	ttatgtagca	acgtggaaat	120
atattttacag	aacattaagt	ggagaaagca	ggacacgaaa	gtatatattat	actacagtta	180
taactcaaca	gttcattttat	atgctgttca	tttaacagtt	catttaaaca	gttcattata	240
actgttttaa	aatatatatg	cttatagtca	aaagctgttg	tgggtgttgt	gttgtaggct	300
tatagttgag	cattattttc	ttaaatttct	tgaatgttcc	ttatggtagt	gttactaaaa	360
agtttatgat	cacattttca	ttgtgaacat	aatttgaact	cattatcaca	cacttggaat	420
atacagaaaa	gtggaggaaa	aaaaatcata	tccccaccat	ccaaagacat	atactctcct	480
cttatcttgt	tcattcttgt	ttctgtgcac	aggtttatga	ttataactgt	gtcaaaatgt	540
atattcaaaa	tagctgttac	attacctttg	tgggaattatg	gttaaatact	ttcactttta	600
ttttttcaaa	tgttccctat	aataatgtcc	tgataacagt	gtattatgtg	tgtctccatt	660
ggtgtgcata	atacatacc	agaggaaaaa	ttagaaaaata	aagtaaatta	ttttaaaaaa	720
ttacctatat	tcccaacacc	taacaactac	tgnttaacca	tcttgatctg	nttcctctat	780
cttggttcag	tgcacacgct	ttgngaataa	cagtgggttaa	atatgtgtgc	cataaaggcc	840
ttaaatggaa	aagatgtggg	aaaaataact	taanaataag	ggtggccttt	ggggggaaat	900
ttggttaaaa	aattttgggc	tcnaaaattc	cnttaanaaa	acctttgggg	ggtttgggna	960
ataaaaatnt	taanggangg	aatnttcccn	ttccantttt	nattccttcc	tcttcccaaa	1020
actt						1024

<210> 25  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (1024)  
 <223> n = A,T,C or G



&lt;400&gt; 25

gccgtcnaga	cncatgcncn	agcgnnecgnc	ngtgtgatgg	atatntgcng	aattcgncct	60
tccatccctaa	tacgactcac	tatagggctn	nagnnggcc	ctattncnga	tngaangacc	120
acngccat	taacaaacca	aaaacctgtg	cacagaaaca	agatgaagaa	aatatatcaa	180
gatgttaacc	acactctttg	gatggtgaaa	acatgggtga	gtttctcttc	tacatttctg	240
taacttcaaa	gnttctataa	tgaacacatt	tcatatataa	tggaantata	tgtagnaaag	300
gnggactacc	aaaacactag	aatgatgacc	tttcaaggaa	accgaaacaa	aataaccata	360
atcccacaac	aaccacacaa	ctatttcttg	gttntcatnt	ttcttcccat	ctttgacatt	420
tatgcatact	tatcactaac	accctaataa	tccagactag	tgcacagatc	aagatgttaa	480
cagttaattg	cngntgggtg	ttgggaatgn	gcgtgaattt	tctttactga	atttccaaag	540
ttttgtatga	gnntgtatna	natttgtaan	ggaaaatata	tacatnaaat	ttattacca	600
aacaccaaag	attattttaag	gaatttgaga	cnaaatattt	aacccaaatt	ccacaatgcc	660
aacactnttt	taggnatttt	ccacatcttt	tcntttaaga	ctttatgcnc	cccataatgt	720
aacactggta	tcacaaagcg	tgtgcactga	aaccagggat	nnaggggaacc	gancaagatg	780
ttnnacagnag	ttgggtangng	gatnggaaaa	taggnaattt	ttaaannaat	tnacttttat	840
ttccnanatn	tccctttggg	gatgncttat	gcncccccat	gggggncccc	ctttanance	900
ctgggtaatca	nggccttttt	ttttggggaa	cttttgga	aaanttnaag	gggaangttt	960
ttacccataa	tttcccaaaa	ggnanggggn	acnctttttt	ggaanatcct	ttnggcncct	1020
tttn						1024

&lt;210&gt; 26

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 26

gtgcgatgca	tgcnegagcg	gccgccagtg	tgatggatat	ctgcagaatt	cgccctttcg	60
agcgcccgcc	cgggcaggta	cttttttttt	tttttttttt	tttttttttag	attccacata	120
tgagtaaaat	catgtggat	ttgacttgcc	ttttaaaaca	cagtgaagaa	tctgtcttac	180
tttattcagg	gtaggagaag	ctacctgggc	tccccataaa	tgagggtgctc	catcccatca	240
tacagcccca	tcatattcag	tgcttcccag	atgacctcct	caggggtgca	gtagccctct	300
atgaagatta	tgcttaggat	aagtatgaga	atgccagtct	tgggcatgct	ctggacatca	360
ctcagcatcc	catcataggt	gaggcccagg	gaggtgacaa	ggacaaagga	gtggccagtg	420
ggatccactt	cctttacatc	aatgccaaag	accagcagca	tgactcgga	ggcttcacta	480
aacaacaaag	ggaagtggtc	ttcataattt	tttatgacac	tctccagtat	ttctgccttt	540
gtgatcggct	ccttcatttg	atacttgaag	agcagaaact	gcaccaaate	agtcaccttt	600
tcatctatct	cacttctggg	gtaaaagactc	actgtctggc	aggacctgta	gggtgcttgg	660
gactctcctc	cttttggctg	ctggagccct	caacaagatt	gatctaattg	gaaggggaaac	720
caaccnaccg	aanggggang	gagcaggctn	ttctgaagca	ctctggggga	aggatttttg	780
ngtnncnctn	catncagcan	gnaaacctcc	cncggggggg	gccttggnna	ttananggtt	840
agcaaggang	gaggacgnag	gaananggan	gnangnaggg	aaaaagangg	attggaaaaan	900
agggancctn	ggtgggaaat	tgggggtttt	nagcaatccc	ccnccaaaaa	ncnaggggaa	960
ccctgttcaa	cccnanggc	cnggnttcca	cttttggaat	ttgaaanttt	cctcaaggaa	1020
ngaa						1024

&lt;210&gt; 27

&lt;211&gt; 935

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(935)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 27

acgcgggggtg	gggggggtcc	tggtcttttg	cttctcgact	cggctcctgtt	tcgacagcga	60
-------------	------------	------------	------------	-------------	------------	----



acatgtcgcg	gcctgtcaga	aataggaagg	ttgttgatta	ctcacagttt	caggaatctg	120
atgatgcaga	tgaagattat	ggaagagatt	cgggccctcc	cactaagaaa	attcgatcat	180
ctccccgaga	agctaaaaat	aagaggcgat	ctggaaagaa	ttcacaggaa	gatagtgagg	240
actcagaaga	caaagatgtg	aagaccaaga	aggatgattc	tcactcagca	gaggatagtg	300
aagatgaaaa	agaagatcat	aaaaatgtgc	gccacaacg	gcaggcggca	tctaaagcag	360
cttctaataca	gagagagatg	ctcatggaag	atgtgggcag	tgaggaagaa	caagaagagg	420
aggatgaggc	accattccag	gagaattccg	gcagcgatga	agatttccta	atggaagatg	480
atgacgatag	tgactatggc	agttcgaaaa	agaaaacaaa	aaagatgggt	aagaagtcca	540
aacctgaaaag	aaaagaaaag	aaaatgcccc	aaccagact	aaaggctaca	gtgacgccaa	600
gtccagtga	aggcaaangg	aaaattnggt	cgccccacag	cttcaaaggc	atcaaanggg	660
aaagaatccn	tctccaaaag	aagaaagatg	aggggaaccg	aaaaccccc	agaaaaggaa	720
aacatctana	agccccccaa	cccagaaatc	tggggataaa	ggggctgaaa	aataaacccc	780
cnnntgggga	agnttttaaa	ttatgaangg	nctggggaaa	aaattttttt	aaaaaannnn	840
nnnnnnnnna	aaaaaanttt	cctgcccggg	ggggcgccnc	naaaggggga	anttcaanaa	900
aaangggggc	ggttttaaaaa	gggggtttcca	ccccn			935

&lt;210&gt; 28

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 28

cttgnaccg	ccctcggatc	cctagtaacg	gccgccagtg	tgctggaatt	cgcccttcct	60
atctgtggac	acttaatgca	actgttttaa	aatgataatc	acgagttatg	tagcaacgtg	120
gaaatatatt	tacagaacat	taagtggaga	aagcaggaca	cgaaagtata	tttatactac	180
agttataact	caacagttca	tttatatgct	gttcatttaa	cagttcattt	aaacagttca	240
ttataactgt	ttaaaaatat	atatgcttat	agtcaaaagc	tggtgtggtg	ttgtgtgtgt	300
aggcttatag	ttgagcatta	ttttcttaaa	tttcttgaat	gttctttatg	gtagtgttac	360
taaaaagttt	atgatcacat	tttcattgtg	aacataattt	gaactcatta	tcacacactt	420
ggaaaataca	gaaaagtggg	gaaaaaaaaa	tcatatcccc	accatccaaa	gacatatact	480
ctcctcttat	cttggttcatt	cttgnttctg	tgacacaggt	tatgattata	actgtgtcaa	540
aatgtatat	caaaatagct	gttacattac	ctttgtggaa	ttatgggtta	atactttcac	600
tttaattttt	tcaaagtgtc	cctataataa	tgtoctgata	acagtgtatt	atgtgtgtct	660
ccattgggtg	gcataataca	taccagagg	aaaaattaga	aaataaagta	aattatttta	720
aaaaattacc	tatatccccc	aacacctaac	aactactgnt	aacatcttga	nctggttcct	780
ctatcttggt	tcaagtgcac	accgcttgng	aataacaagg	gttaaaaatg	ngngccataa	840
aggtcntaaa	atggaaaagg	atgtgggaaa	aatnacctaa	aaataggggt	ggccattggg	900
gggnaatttg	ggttaaaaaa	tttgggctcn	aaaatncctt	aaaaaaaaanc	ctttgggggt	960
tttgggaaaa	aaaaatttta	ggggagggaa	ttttccattt	ccaaatntta	ntcctacttc	1020
ntta						1024

&lt;210&gt; 29

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 29

taggatncat	gctcgagcgg	ccgncagtg	gatggatata	tgcnagaata	cgcccttcca	60
tcctaatacg	actcactata	gggctcgagc	ggctcgccag	gcagggtgcta	acaaaccaa	120
aacctgtgca	cagaaacang	atgaagaaaa	tatatcaaga	tgtaaanac	actctttggn	180
tggtgaaaac	atgggtgagt	ttctcttcta	cntttctgcn	antncanagn	ttctataatg	240
aacacatttc	atatgtaatg	ganntntntg	tagtgnaagg	tggactaccg	gaacactaga	300



atgatgacct	ttcaaggaaa	ccgaancaaa	ntnacntan	tcccacaana	accacannac	360
tattncntgg	tnntnatgtt	tcttcccac	tttgacattg	atgcntactt	aggactancg	420
ccctaataat	cccagacttn	ggcacagatc	aaganggtaa	cnggtgattg	gaggtgggtg	480
gccggaantt	ggggtgantg	ttntttatgg	anttnccann	ttttggtang	ngattgnnna	540
aaattnga	nggaaacnct	tacttnaant	tgnttaccnn	aacnccnagg	atnttttaag	600
gattnggggc	cnaaatTTTT	acccaaattc	cncaangcc	ancnctgtnt	aagtcatttt	660
caaatTTTT	tcncttaaag	accttaaggc	cccctaagg	aacctgggaa	tanaaggggg	720
ggcacntggn	accaggntcc	nagggaaacng	nnccaagant	tttccccntt	ntttgtttgg	780
gggttgggaa	atnnnnngnaa	atTTTTTaaa	ggtaatncac	ttaatttgcc	aaaggaattc	840
ccttnggggg	nggnnttatt	gcncacccat	gggagacccc	cntaaggccc	cnggaataag	900
ggcctTTTT	tttngggacc	atttgggaaa	aattttaaang	ggaaggcnnt	ttgnaccctt	960
aatttcccca	aggnaaangg	aaccnccnt	tttgganatt	gcattttngg	ccccgttttt	1020
aagg						1024

&lt;210&gt; 30

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 30

gtgcgtctta	gatgcatgct	cgagcggcgg	ccagtgtgat	ggatatctgc	agaattcgcc	60
ctttcgagcg	gccgccggg	caggtacttt	aattttgctt	gttcaaata	tctacactta	120
cattttgcaa	atcttttttt	ttaaattttt	taaattttat	atTTTTTTTc	cagccaactc	180
aaggccaaaa	aaaattttctt	aatatagtta	ttatgcgagg	ggaggggaag	caaaggagca	240
caggtagtcc	acagaataag	acacaagaaa	cctcaagctg	tgaggatcaat	ttgtaattaa	300
aagaatacta	agattagatg	aacacaacac	tcagaaatac	tctaggagag	ctgaaaaaga	360
aggaacagat	gttaacaaaa	caaattaagg	ctgctgggga	acctgagtcc	atgttaagct	420
tgggttgact	gtaaagaatt	tttttttttt	taatgcaagt	tagacatgga	gttagagggt	480
cagataaata	acgaagagaa	ttaagttagc	gatagaaaga	tctaaggata	ctagctcctg	540
ggcacctagg	gtgcaaactg	acttgtggca	gcataagctg	atgctgcaca	ggggacccaa	600
gccatgttgc	tacttgtcac	ttaaggcang	aagcgcacaa	aggaagtgat	gaaaggggat	660
tagcctgcaa	cattattttac	agcatganag	cctctcctac	gggtcccaac	cttcattagg	720
cactactggt	gattcaagtg	aatgggttgt	aaccantcc	ttaaaaggca	aaggatgtta	780
ggantttaca	gggaaaaaag	cttccgggg	tttancaatt	caccaatcan	caaaccacat	840
attgaagttt	ggttaaaaaa	aaaaanannn	anaaaaaagt	nccctcggcc	gngaaacanc	900
cctaaggggg	naaattccag	canactgggn	gggccgntta	caaaggggtt	cgaaccncgg	960
taccaaacct	tgggggttaa	ncaaggggca	aaancggggt	ncccgngggg	aaaattgttt	1020
nccg						1024

&lt;210&gt; 31

&lt;211&gt; 1019

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1019)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 31

gtgngatgca	tgctcgagcg	gccgccagtg	tgatggatat	ctgcagaatt	cgccctttcg	60
agcgcccgcc	cgggcaggta	ccatgctgac	ttcttggtat	cttttaaggc	ctaattttcc	120
cttccttgag	attactgtag	tgtgttccag	ctaattttcta	tttggaacg	agttggaaca	180
gctgaaaact	aggtattatt	gaaggcaaa	cagcctcacg	tcagtttttt	atcagctcat	240
ttgggaagtt	tttttttttt	ttttttttta	attaattaga	aagtaggctg	ggcacgggtg	300
ctcatgccta	taatcccagc	acttggggag	gccgaggatc	tcctctctgg	tggatcactt	360
gagggcagga	gttaagagac	catcctggcc	aacatgatga	aaccctgtct	ctactaaaaa	420



tacaaaaagt	agctgggagt	ggtggcctac	tcttacaatc	ccagctactt	gggaggctga	480
ggcaggagaa	tcacttgaac	ctaggaagca	gaggttgca	tgggccaaga	tcacaccact	540
atactctagc	ctgggagaca	gaggtgggga	aaaaagtagg	acccctgtcc	tatattcagg	600
tttttctcac	atatatgaac	ccatctaaat	tctacgttgt	ttaaagggtanc	ttaggttaat	660
taagtccata	cttattttaag	accaatatgg	ggtgaaatgg	gatttttttt	taaaaatcct	720
acagntnagg	ctttccnact	ttccttcnaa	atgaggaaaa	aaagggtgaca	aaaattcaag	780
tgtcaatgtc	ccctcctggg	gaaanagggt	tanaaaaaca	acagggtcaa	ccttctgaac	840
tnctaacaan	ttcccttnga	aanttaacga	anccattaaa	atcnngattt	taaaagagga	900
aaanaaaaaa	gttcctcggg	cggnnacaan	cctaagggng	aaattccaca	aaaanngggg	960
ggcctttana	aagnggttcc	nacccggtac	aaaaccttgg	gnttaaccan	gggccaant	1019

<210> 32  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

<400> 32						
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tggttgggaat	atgtgtgaat	tttctttact	gaattttccaa	agttttgtat	gagtatgtat	120
tatatttgta	atggaaaata	catacataaa	atattattacc	aaaacaccaa	agattattta	180
aggaatttga	gacaaaaatat	ttaaccaa	tcccacaatg	acaacactat	tttagttatt	240
ttccacatct	tttcatttaa	gactttatgc	acacatattt	aacactgtta	tcacaagcgt	300
gtgcactgaa	acaagataga	ggaaacagat	caagatgtta	gcagtagttg	ttaggtgttg	360
ggaatatagg	taatttttta	aaataattta	ctttattttc	taatttttcc	tctgggtatg	420
tattatgcac	accaatggag	acacacataa	tacactgtta	tcaggacatt	attatagggg	480
acatttgaaa	aaattaaagt	gaaagtattt	aaccataatt	ccacaaaggt	aatgtaacag	540
ctattttgaa	tatacatatt	gacacagtta	taatcataaa	cctgtgcaca	gaaacaagaa	600
tgaacaagat	aagaggagag	tatatgtcct	tggatgggtg	ggatatgatt	ttttttcctc	660
cacttttctg	natttttcaa	gtgtgtgata	atgagttcaa	attatgttca	caatgaaaag	720
gtgatcatta	aacttttttag	taacactacc	aataaaggaa	ccattttcaag	aaaatttaag	780
gaaaaataat	gctcaactat	taagcctacc	acaaccaaca	cccacaacag	cttttggaact	840
attaagcna	tatattttta	acnggtatta	atggaactgg	ttaaatagaac	tggtaaaagg	900
aaccgcatnt	taaatggact	ggtgnggtta	taaccgggtg	tataaaaaana	cctttggggc	960
ctggtttttc	ccttaanggt	ctgnaaanat	atttttcnct	ngtccanacc	ncgggatatac	1020
aatt						1024

<210> 33  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

<400> 33						
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ttccanccna	atacgacna	ctatagggcn	nncnnntng	gcnnctttgn	tgcccctccn	120
ctcgnataat	anctatatta	acgaaattgt	nctggccttg	agttggctgg	agagaaatat	180
tnngagnnnn	accngtnnnn	ntnngnnatc	ngtaaatgt	aanagtagnt	catttgaaca	240
agcaatnatt	naantaccca	ctggngggaaa	ngngnctgaa	tcttactctt	ntggatctgc	300
aggantaggg	cttgtnagta	tgtcaaanat	gcnnncagt	tcaangttta	ngccnattgt	360
aganctngta	gcaggaancn	acnntgangg	ancnncagaa	nggagncctn	anacatnncc	420
agatntacga	ggngagagga	gacanacnga	gaaagacacc	ntaggnncga	nctgnagaag	480
gncaggattc	tgagaatgaa	ntgcncgggn	agtcnnganc	agattggaaa	aggagnttct	540
ganggnatgg	tgcacnngag	ggctgacngg	tangaggnac	tgntgttggg	acgnacatag	600



cgaaagntgn	tgngcagtga	ggattactac	atgnngaaa	gactcttgaa	acgaggaact	660
aactgtgatg	ncanggctga	agtttgggcn	nccatacttt	gnagggttaca	attnttngca	720
gtggncgncc	cgttttaana	gccnttttga	tggaaantca	aggggtgnncg	gtacnacctt	780
ccnttttaggg	nacaaggcnt	tnccgantgg	gtngccagga	agaanganng	ccnnanccct	840
annnggnggg	ccccttaatn	gcacnggggtg	aacaatgcna	accctcgggt	tattggaacn	900
accgnggana	anatggttac	cgaaccatta	ngtgggggna	aacccggaac	ccggaaggct	960
ttttttnncct	cngggtaaaa	acttaacaga	ccnatttttt	gcccgccttt	taacangtct	1020
tttt						1024

&lt;210&gt; 34

&lt;211&gt; 982

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(982)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 34

acaacaatct	aagcaaactct	caaatacaac	atacttgtaa	ttagaacaca	atgcaatgac	60
ttgatttttag	caagaactag	acacttaatt	tggtaaaaaga	aaccaaaca	tgcattatat	120
tgaatactaa	gctaagttac	cataattagt	cttacaaatt	ctcaaatttc	acaactactt	180
ttgaacatct	aaatttaaac	ctaaattttt	taattaaatg	cctgttcaac	aaagctaatt	240
ggaacaaaca	catttatgta	aattttacatt	ctagaatacc	agggtaaaca	aggagacgtt	300
attcaaagat	gaatgagaaa	gttctattct	ttttcatcat	ttgtgtgatc	aggttgcaaa	360
ggacatgctc	tttctcctgat	gaaactgatg	togaatttagt	ggcagagggtg	gaagaaccaa	420
gcacctttct	gggggctcga	gcagccacca	cttttctgta	agtgcctggg	aacactgtct	480
gcttttagtcc	gcacatggtt	caaacaagaa	gagaggagag	gagagaacga	actgacttcc	540
cagccgaagg	tgtttctactg	ggacaaggcc	ccgcgttacc	tgcccggggc	gggcccgtcg	600
aaangggcgaa	ttccaagcaa	cactgggcgg	gccgtttacn	nagtgggatt	cggngctcgg	660
gtancaaggc	ttgggggtaa	tcaaggggca	atagccgggt	ttcccngggg	tgaaaaatgg	720
tnttccngnc	acaantccca	nacaancatt	ccgaagccgg	gaancntnaa	agtgttaaaa	780
ncctgggggt	ngcccaaagt	angtggngct	naactcccat	ttaaattngc	gnttgcgcc	840
nannggccng	cctttccaat	tnccggggaaa	cctgttncgt	gccaaagtcgg	cantaaagaa	900
atcncggcna	antccccggg	gnaaaggggc	ggnttgccgt	nttggggggc	gncttccggn	960
tttcccgggc	caaagggann	ng				982

&lt;210&gt; 35

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 35

cttggcccg	cctcggatcc	ctagtaacgg	ccgccagtgt	gctggaattc	gcccttccat	60
cctaatacga	ctcactatag	ggctcgagcg	gccgcccggg	caggtataaa	atttaaaaaa	120
tttaaaaaaa	aagatttgca	aaatgtaagt	gtagatcatt	tgaacaagca	aaattaaagt	180
accactggg	ggaaatgtgt	ctgaatctta	ctcttctgga	tctgcaggat	tagggcttgg	240
aagtatgtca	aagatgcagg	gagtgtcaaa	gttttaggaag	attgtagagc	tgagagcaag	300
aagcagaaat	gagtgcagtc	aagaagggag	tcctaataca	tcaccagatc	taggagggga	360
gaggagacag	acagaagaaa	acaccagagg	caagaactgt	agaaggccag	gtttctgaga	420
atgaattgag	cggggtgtcc	tgagcagttt	ggaaaaggag	tttttgatgg	tatggtgtag	480
gtgagggctg	gctgcatagg	aaggactgag	gttgagcg	acatcgggaa	agctgagggg	540
cagtgaggtt	tactacatgg	gaaaaggact	cttgaaacga	gaatcagtgt	tgatgtcagg	600
gtgaactttg	tgggtacatt	acttggtgtt	aacattgggt	gcagtggtaa	gccccttttc	660
agaaagcaac	ttgcttggtaa	gtcanggtgt	ccggtccaac	ctttaactag	tgaaaaggta	720
gtaaccaatg	gtaaaccagg	agaatgattg	gttnaacct	atctgngggac	acttaaatgc	780



cactgggttta	aaaatggnaa	tcacgagttt	tgtanccaacc	ggggnaatat	atttaccgga	840
accttttantg	ggnaaaagcc	ggncnccnaa	ggnttttttat	tncttcnggt	tttaacctta	900
acaggtncaa	tttataatgc	cgggccattt	aacagggtcat	ttttaacccg	gtcnnttttt	960
accnnggtta	aaaaanntnt	atgccttttag	gncaaaaanct	ttttnnngggg	gnttnttggt	1020
nang						1024

<210> 36  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (1024)  
 <223> n = A,T,C or G

<400> 36						
taccgcctcg	natccctagt	aacggccgcc	agtgtgctgg	aattcgccct	tcctccttaa	60
tacgactcac	tatagggctc	gagcgggccg	ccggggcagg	tagcaaagt	tgtggcattc	120
ctcctcctcc	tcaagtcttt	acccgaaact	acttcccaag	agaggttgct	cttcccaaag	180
aatcacctgc	cctgggacca	tatggggcta	ggctgagggg	caggagccaa	gagcctgggc	240
ccaactctgt	ctgtggctta	ctgtgagacc	ctaggcaagt	tgcttaccct	ctctgggggt	300
caaattcttc	ctctttgaaa	taggaataat	aacttcatca	ctagaattct	tcacctgggt	360
gttgtgaagt	taatcagaat	aaatgtggag	ataatacatg	aatgagcgta	cagaatatta	420
tttggtggtt	ctgtggcatc	gatataggtc	atgatagtga	caatagtgtc	tgtcattgta	480
ttccacacca	cttcttcctc	cagctaaagc	aggaaaagaa	aggaggttaag	tctctctgtg	540
ttttttcttc	ctttcccaa	gcccactttg	ttaccttcct	tggttgctgg	atgagaaatt	600
agtcagaggg	tcagagagga	cctcaacttc	atatgcttta	aatagagcat	atgcaatttt	660
aaaccatcct	cttaaccaat	ttttcttttc	ttttcagttt	ttccccagtt	atacttccac	720
atgatacacc	agagaaggaa	gatcctttct	catactgaag	aacacaagaa	atgtgaatag	780
ttcctgcttt	ctgnaccttc	caccaaaaca	aacttttcaa	tgatccaaaa	aactggcttt	840
gnactgggga	gtcacggaat	gggcccggct	ccangganca	tggcggnnng	gcctttgcgg	900
ngtcgggcct	gtggtggcgg	cggaaaggna	accgggggca	tggnttnccg	agcctggtct	960
tgccccccng	ggncatggtg	tggaggcaaa	gaancctgaa	gtccccacng	gcccccgga	1020
agna						1024

<210> 37  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (1024)  
 <223> n = A,T,C or G

<400> 37						
cttggcaccg	cntctcgatc	cctagtaacg	gccgccagtg	tgctggaatt	cgcccttcca	60
tcctaatacg	actcactata	gggctcgagc	ggccgcccgg	gcagggtgaat	tcagcgggcg	120
cttttttttt	tttttttttt	tttttttttt	acaggggcgg	tttttggttt	atttctgctt	180
ttttcccttt	ttcttaaaaa	aattaaataa	agttctcatt	atttcccaa	tatacatcaa	240
atgagttttc	atgcaaagca	gcagtcacag	aggcagaact	gtccccagct	cgtgcctntc	300
ggcttgaaga	accaccttnt	cccggccccg	ggttctcttg	ngttctcact	gaggatggac	360
gacgccact	gtctntccca	gctggaactg	gctatgacga	aacttggctg	gcgtagggag	420
aggagtcttc	ccctntcccc	aggatggggg	ctcaggggac	agcaagctct	ggggcctgat	480
ccccatcact	tgnccttcca	tctgagactc	ccagtgtgac	agcttggaca	ggctccctct	540
cccaggaatg	cgaggctcct	cctctcagct	ctcaatggac	atggcattaa	tgagctgctc	600
caccttataa	gccagccgnt	gccgccgtgc	ctgctcatcc	tgctctaggg	ccccgatgag	660
ctcctcacta	tacttgctga	cataggagta	gatctcattg	ggggcactca	acatgttgaa	720
actccacggn	gtgcaggcgg	gactgctcgg	cgagggttagg	cattcatggc	ctggctactg	780
gatggctggg	aaccttgggc	aaggctgcgg	nagnatcttt	tccccccagc	tnntggnaac	840
ttgggggaagg	cccttgggca	taaaaagcaa	cttgggttga	anggggaggn	ctttgccccaa	900



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ccccgggggct ttggacgttg gaacaagagt nccttgaagg gtttgggncc ccncaaaaa 960
ngcangcntc cgggaaagcc gcccttgggg gtgncaaaac ccnaactgg ggggttnttn 1020
aanc 1024
```

<210> 38  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

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<400> 38
taccgcctc gcatccctag taacggccgc cagtgtgctg gaattcgccc ttccatccta 60
atcagactca ctatagggct cggcgccgc ccgggcaggt gccgctttt tttttttttt 120
ttttttttt ttttgcctc acaactgttt attttaagct gaaacttcaa tattcattga 180
ttacctataa taatagttac tcataaatgt agttaataat taaatataaa aattattatt 240
tttacattta tataaatctc tgaaaaatac caagttttga gagatagagc aagaaattgc 300
ttanaaaatt gcaggaagcc tgaanaatct cagcatcagt caaagcaggt ncaacaaaaa 360
acaatttttg acattcattt ttgcttttaa gagtgcctaa aataaatgat cacagaatga 420
ataactgatg tatggcaaaa atgagtttaa aactatgtaa gctccaaggc cccaatgtgt 480
ataagaattc tttggaagga ttttgaagga ctgtaaatgt tgcaaataaa agtaaaaact 540
agtagttagg caatgngttt taaactatag ngtcacctac tgntcttctg gtgcctaact 600
gnattcttca acatcttctt ttcccttttg attagaaatc ctgggtctacc tcaaagggtt 660
tgcattgntt tctagggaca tcagcaaaact ggtagaccat atgagaaaaca gaaataaaca 720
gtaatattat ctttagaaat taagcattat gtacncagtg agaaatggat tgacttgata 780
gaccttaaac ccctttcttc ctttcacacc ctttntagna ccacctaanng gtatccggat 840
tggggatggg gcccncntnt ggtaatcccc cttnagtcag gacagggggc cctaagggcc 900
caattttntt tcgaattaga gaaatncccc attttttggg ggggttgcaa gtnttanccc 960
anggcttgca aaggcttntt tttgaagana cncccaaacc cgggncttn tttttcngga 1020
atca 1024
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<210> 39  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

```
<400> 39
tcgcccagagc agnangcncn agcggncnnc agtgtgatgg ttatngtggn gnnttcgcnc 60
tnccatncta atnctactca ctataggggn cntgngncnc nnggcagtn ntnacnnntn 120
annggtgtaa ctgatatcat ntncennana ccatgggttac atnnanntag gtctcennang 180
nataccangc tntgagagnt ngaccnggaa ntcgnttnga aannttgngc gangccngat 240
caatatccnc atcngncaca gcggnccgc aagctgacaa tntcgnanat tnattnttgg 300
tttannganc nnttacangn atggnncccn gagatgcatg nnggagtatg gcaaagatgn 360
ntgtaaaaact atgtaagctc naaggcccca atgtgnataa cagttcntgg nanggantnt 420
ganggantgt aagngntnaa nntnaangnn anannnaaga ggtangncat gagcccnaaa 480
ctgtagnnnt anctacagng cttanggcgc ctacctggga caggcnacgn cttcattaac 540
cttttgatta gaannacggg ggtaacncac nggttnngca tgggtccagta ggngcattgn 600
ccngcngggc aaccatattg tgngcncaaa taaacgggtc ttttanctca nnagattaaa 660
gctttttggc cacaggggna aaagnatggc ttganaggcc ttaaaccccc gtactcngtn 720
cacccttttn gagaaccncc taacgggatc tggaaatgng atggccccct nttgggaaac 780
nccctanaag anacctcngg ngacccttgg nggcccattt tgangtttag nacngcaatt 840
tnccattttt tgnngttttt gccaaccta agncatnggc tggcaatgga ntgnnttttc 900
caatagaanc aaaccccggn tnttttttgg ggggnatcag gggttaagggn nttggcaaaa 960
nnaaannggc ncnnngnaaa aatttttccc nggtntatcn aaanncccca aagcttttng 1020
```



caan

1024

<210> 40  
<211> 1024  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 40  
nggacgcatg ctcgagcggc cgccagnngn atggatntng tgcagaantc gccctttcat 60  
gcctatgatc ccngcacttg gngaggccga ggatctcctc tctgggggat cacttgaggg 120  
caggagttaa gagaccatcc tggccacccat gatgaaaccc tgtcnctact nnacatacag 180  
gaagnagctg gncgngntgg catactctta caatcccagc tacttggnag gntgangcag 240  
ganaatcact ngnacctang aagcagaggn tgcantngnn ccaanancac accactatac 300  
tntagcctgn acgacagagg tgntgataa agcnggaccc ctgactatat ncaggntttt 360  
ctgacntnna nnancncatc taaatnctac gccgtntgag gtcgcntagg ttangtagnn 420  
natnctnatt tatgaccaat atgntgtnan acggcntnnt gntnaaaant tntacagnan 480  
ggcngnctac nttntctata atgnggaaaa cgggtgntga natncangtg nnnnngtccn 540  
nttnntgtna agaggnttng aaanncanca gtgcacctn tgaactctac nagnagcttn 600  
tgaagctaac naagcnttaa natnagatgg cntgntagga ctgtacnngc anggaaagat 660  
tcacaaaact ggacattctt naccgagata ngntcttgc ttaccgggga ggacnnntcc 720  
aaggntgtnt naagaggggac agtcagctta gtntgtctng ggtagagaaa accangactt 780  
natntgtgag cttgatnngc agaacctggg nanccttgga agagcntnga ttgnccngat 840  
ccctgaaaag gcnnncttna ccctatcggt gaccttnna acctcttang tggcacgcaa 900  
ggcacnaacc nggcnnttt caagaatcnc nggaatcnag gcccctttct tgggntnanc 960  
cngnnnnncc cgttnagncc cncgggnaaa anntcttggg nntttccaat cccngngggn 1020  
nttt 1024

<210> 41  
<211> 1004  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(1004)  
<223> n = A,T,C or G

<400> 41  
ggtnnnntta atcatcgccn gcttggtacc gagctcggat ccctagtaac ggccgcccagt 60  
gtgctggaat tcgcccttag cggccgcccc ggaggtact tcccaccact ggaaatgtta 120  
gcataaaaaga acttgagag gaaaaaagta ttaacaaaac tgcagtctgc actctttaaa 180  
cctgtttaag gctcttcac ctggttagca aaagggtgtga atgtaatgtg atggaattta 240  
aaagttttat gagaccaggc acagtggctc acgactgtaa ttccagcagt ttaggaagcc 300  
gaagtgtgca gatcacctga ggtccggaga ccagcctggc caacatggtg aaaccctgtc 360  
tctactagaa atacaaaaat tagccagggt tgggtggcgg cgctgtaat cccaactact 420  
caggaggctg aggctagaga atcacttgaa ccagcaggc ggaggttgcg gtgagtcgag 480  
atcacgccat tgcactccag cctgtgcgac aagagcgaaa ctctgtctca aaaagatttt 540  
ataagaaaagc agagcttttc cttgaagctc ttttgaagtg gtactttaat tagtattttg 600  
ntgaaaatac tttaaagatg cctagtgaag agcctactaa agtgctgtga aaaatggggt 660  
ttanaacatt ttattttcan gctttatggc ctattttcca ttngggcaag tgcaaaaacta 720  
ccctggcccca aangaagggc agagaacata attacctctt anggcacatt tcattctttg 780  
cagctttgct taatccagtn gctaagttct ttacctnaac cctgnaggna ttgaacntta 840  
ttncatttn ngnaaaaggg tcacctntt nnnacaatnt tncannant ttttnggaag 900  
ttanccnttg gccttaaaan ttnaaaantc cntntggnt tccctttatn ccccnangg 960  
gnnnantang gnttgattt ttaangncc ttggccngaa cccc 1004

<210> 42



<211> 1020  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(1020)  
<223> n = A,T,C or G

<400> 42

nnnnnnnnnn	nnnnngattg	ggccctctag	atgcatgctc	gagcggccgc	cagtgtgatg	60
gatatctgca	gaattcgccc	ttagcgtggg	cgcgcccgag	gtacctttga	taattcctag	120
acctctattt	tcattctgtg	tattaatgtg	aataacagat	ggatatttta	atattttaagg	180
cagatggtaa	actttcctat	aggtcttgtg	agacttcgtc	ttataggctg	aacaccattc	240
acaaaatgta	ataatgcttc	attccttcag	gttgaggtaa	agaacttgag	caactggatt	300
agcaaagctg	caaagaatga	aatgtggcct	aagatgtaat	tatgttctct	gcccttcctt	360
tgggccaggg	tagttttgca	cttgacacaa	tggaaaatag	gccataaagc	ctgaaaataa	420
aatgtttctaa	accccaatct	cacagcactt	tagtaggctt	ttcactaggc	atcttttaaag	480
tattttcaac	aaaatactaa	ttaagctacc	acttcaaaag	agcttcaagg	aaaagctctg	540
ctttcttata	aaatcttttt	gagacagagt	ttcgctcttg	tcgcacaggc	tggagtgcga	600
tggcgtgatc	tcgactcacc	gcaacctccg	cctgctgggt	tcaagtgatt	ctctagcctc	660
agccttctgg	agtaagttn	gaatacaggc	gccccgncaa	cacacctggc	taaaatttgn	720
atttctagta	naanaccagg	ttttnanct	gttggncaa	gctgggtctt	cggaaccttn	780
angtgatctg	gacacctttg	gntttcctaa	actgggtgga	aattancagc	gggaaccnct	840
ggggcctggc	tcattaaacc	tttaaaatnc	cttnccattc	anttcncacc	ttttggtaac	900
ccggnatgaa	aacctttnaa	ccgggtttta	agnangcna	nnnggggnat	ttgtaaaact	960
ttttcccnt	tccaagtct	ttaagccaan	nntttncng	gnnnngggan	ccctnccggc	1020

<210> 43  
<211> 1020  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1020)  
<223> n = A,T,C or G

<400> 43

ggagnnnnnt	aaacgccagc	ttggtaccga	gctcggatcc	ctagtaacgg	ccgccagtgt	60
gctggaattc	gcccttagcg	tggctcgcg	cgaggtactt	tttactgctt	tgtcttcaag	120
gcctagtgtg	ataattaaca	tctagtatgt	gtttgatgga	tagccaattt	ttgcttcatt	180
ggtatgttgt	taccacagtc	attggtagag	tcaatatatg	aatgaagaaa	gtataacaaa	240
tttgccctct	agtagagtac	tttttttttt	tttttttttt	ttttgttttt	tttttttttt	300
tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	360
tttttttttt	ngnnnttttn	ncnttttttn	aannaaaaan	cggcccnann	accnnccnnc	420
nnnttttttt	nnccnggccnn	ccnggnttng	gggnnggggn	cnttnngggc	cnnnnggncn	480
ctttttttccn	naagggtttt	gggggttttng	gggnaaaant	tnggnncnan	nnngggccna	540
aaaaanttnn	gnccnanaan	cgcnnnttcc	nannnnnttn	cnttggggcc	caaaaanttn	600
cgnaaccccn	tgggcnnaaa	gggcnttgnt	ttttttgggg	nncccnaaa	canggggggg	660
cnnaaaaaat	gncccttgaa	ntttttaaaa	aaccctntgg	naaaancccc	nnnggttccc	720
ccnnnnnccc	ttanttttnn	acanaanggn	nnaaangggg	ncccnnaaaa	naccnttngg	780
ggcctttttt	tnacaaaatt	ggggnttttn	aaaggggttt	tngggggggc	cctntatncc	840
ccnaaaaang	aaagggnnnc	cccccccnnn	nnnnnnnncc	cnaancccc	ggnnnttttn	900
ccnggggggg	cccnnaaaaa	gggggnaant	ttnggnnaaan	nccnnnnncn	gggggggnccn	960
ttnaaanntc	nntttnanng	gggcccnnnn	nnccccnnnn	annggggggn	nnaaaaaccn	1020

<210> 44  
<211> 1024  
<212> DNA  
<213> Homo Sapien



<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 44  
nnngnnnnnn nngattgggc cctctagatg catgctcgag cggccgccag tgtgatggat 60  
atctgcagaa ttcgcccttt cgagcggccg cccggggcag tacgcggggc tcggcgctgc 120  
ctacggaggt ggcagccatc tccttctcgg catcatggcc gccctcagac cccttgtgaa 180  
gcccaagatc gtcaaaaaga gaaccaagaa gttcatccgg caccagtcag accgatatgt 240  
caaaattaag cgtaactggc ggaaaccag aggcattgac aacagggttc gtagaagatt 300  
caagggccag atcttgatgc ccaacattgg ttatggaagc aacaaaaaaa acaaagcaca 360  
tgctgccag tggttccgg aagtctctgg tccacaacgt caaggagctg gaagtgtgc 420  
tgatgtgcaa caaatcttac tgtgccgaga tcgctcaca tgtttctcc aagaaccgca 480  
aagccatcgt ggaaagagct gcccaactgg ccatcagagt caccaacccc aatgccaggc 540  
tgcgagtga agaaaatgag taggcagctc atgtgcacgt tttctgttta aataaatgta 600  
aaaactgcaa aaaaaaaann nnnnnnnnnn rnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn aannccnnnn aaanannnnn nnnnaaaaag 720  
gcttntttta angggcaaat tgggaaacct ttttnattca aaaatggctt ttnccangga 780  
ctggggacca nnttnccng gggnccaaaa ttgggntttc ctttaanccc ntnncnaaan 840  
gggaattttt ncccttgggc cttgaaaaac naagcnnnnn aaaagncct tgggngggaa 900  
accccttng ggggaatttc cncncnttg ggggggcnt nttnnnnggg acccnantt 960  
gncccaantt ttggggaaaa nnnnggnnaa aaagggnnc cctgggggaa aatgttnccc 1020  
ccca 1024

<210> 45  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 45  
ggagnnnntn aatcatacgc cagcttggtg cggagctcgg atccctagta acggccgccca 60  
gtgtgctgga attcgccctt tcgagcggcc gcccgggcag gtacggcgca ttttgtgcac 120  
acaaaatgtg cgcacacaca cacacagaca ctctgcaca tggcctgtta 180  
aagaactaca agggaggtgg gacgcgggaa agtgtatggt gtgggtttgc atcgtctcat 240  
cattgattct tctcatattt ttctctgatt agagaaacta aagagaattt tgtgagaaag 300  
gcttgaaagt taatgagtta cttctaccaa agtgattaca agcagaaatc ctcatagct 360  
gtagagatgc tgaccacac atccttagct caaggaagcc cctcgcata gtcaccttca 420  
gccatcagca gcctccacca ttaaccccag tgtgctgtat aaaaaatact ttctacatgt 480  
gccccaaatt gaaaagttag gaagcactga tttcaaagca aatcattcac atttgaactg 540  
tcttcagtgt acctcggccg cgaccacgct aagggcgaat tctgcagata tccatcacac 600  
tggcggccgc tcgagcatgc atctagaggg cccaattcgc cctatagtga gtcgtattac 660  
aattcacttg cgtcgggtt tacaacgtcg tgactgggaa aaccctcgc ttacccaact 720  
taatcgnent ggagcacatt cccnttttg ccnactggcg taattaacca aaaaggnccg 780  
gaccgaatcg gccntttcca acaagttggg ccaacctgaa tnggcnaaan ggcccccccc 840  
tgtaaccggn gccattaaac ccccgncggg nnnntngggg taccaccaac ggggaccggt 900  
taacttggcc anggccttaa ggcccggtcc ttttggtttn ttncctttn tttttngccc 960  
ntttnccngg nttttcccg aaagntntaa aaaggggggg tccccntta ggggtcccaa 1020  
taaa 1024

<210> 46  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature



<222> (1)...(1024)  
 <223> n = A,T,C or G

<400> 46  
 nnnnnnnnnn nnnnnnnngaa ttggggccctc tagatgcatg ctcgagcggc cgccagtgtg 60  
 atggatatct gcagaattcg cccttagcgt ggtcgcggcc gaggtacact gaagacagtt 120  
 caaatgtgaa tgatttgctt tgaaatcagt gcttcctaac ttttcaaatt tgggcacatg 180  
 tagaaagtat tttttataca gcacactggg gttaatggtg gaggtgctg atggctgaag 240  
 gtgactaatg cgaggggctt ccttgagcta aggatgtgtg ggtcagcatc tctacagcat 300  
 ctgaggattt ctgcttgtaa tcaactttggt agaagtaact cattaacttt caagcctttc 360  
 tcacaaaatt ctctttagtt tctctaataca gagaaaaata tgagaagaat caatgatgag 420  
 acgatgcaaa cccacacccat acactttccc gcgtcccacc tcccttgtag ttctttaaca 480  
 ggccatgtgc aggagtgtct gtgtgtgtgt gtgtgtgtgt gtgcgacat tttgtgtgca 540  
 caaaatgcgc cgtacctgcc cgggcggccg ctcgaaagg cgaattccag cacactggcg 600  
 gncgttacta agtggatccc gagctcggta ccaagcttgg cgtaatcatg gncatagctg 660  
 ntctctgtgt gaaattggta tccgctcaca attccacaca acatacgagc ccggaagccn 720  
 taagtgtaaa agccctgggg tgccctnatga gtgagctaac tccattaaat tgcgttgccg 780  
 ctactggcc ggtttcagtc cggnaaanct gcggnnact gcantaatga atcggncaac 840  
 gcccccgga aaaaagcggg tgcgaattgg gccctntttc cttttcttgg ttaatggact 900  
 centnngnct tnggccnttc ggnttngggn naacgggatt aanttnnntt naaagggggg 960  
 naanacgggt ttncccnana aatcnggggn aaacccccng gaaanaaacn ttggncccaa 1020  
 nggc 1024

<210> 47  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

<400> 47  
 ggngnnnnnn aaacgccagc ttggtaccga gctcggatcc ctagtaacgg ccgccagtgt 60  
 gctggaattc gcccttagcg tggtcgcggc cgaggtgcat ctgaacattg ccaagcccta 120  
 ggacattccg tagagcttgg ggattctgga ccaattggtt cagacaggac acgaaatgcc 180  
 tgtttgatgg gttctgcaat taaacaccca actactctct tttcatcaga tataaaaaga 240  
 aaagttttta ttttgtttgg acatttagga acaacttgct ggaagcccaa ttcattatca 300  
 acaagttctt ggacatcttc tacctttttg atagcaaagc ttggatcatg tggcagaacc 360  
 aacacgattt tcccatccca aaactctgct actacacgtt ctttcttcca acccacatat 420  
 ttgattcctt ccagaaacct gtggtgatgc tgtacctgcc cgggcggcaa gggcggaattc 480  
 tgcagatata catcacactg gcggccgctc gagcatgcat ctagagggcc caattcgccc 540  
 tatagttagt cgtattacaa ttcactggcc gtcgtttttac aacgtcgtga ctgggaaaac 600  
 cctggccggt acccaactta atcgcttgc agcacatccc cctttcgcca gctggcgtaa 660  
 taagcgaaga ggcccgnacc gatcgccctt tccaacagtt gccgcagcct gaatggcgaa 720  
 tggacgcccc ctgtanccgg cgcattaaac cgccggcggg tnnctggggg accccncacg 780  
 gggaccggta cactttgnca agggccctaa cggcccggtc cntttcgctt tcttnccttt 840  
 cntttnttgg ccacgttngn ccgggttttc ccggtnaagc ttttaaaatn gggggcttcc 900  
 cnttttaggg gttccnaatt aanggttta cgggaccctt gaccccnaaa aaactttnnn 960  
 tttnnggggg gnggggntnc centaggggg ccattgnccc ttgnnaaaaa anggtttttt 1020  
 nncc 1024

<210> 48  
 <211> 1017  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1017)  
 <223> n = A,T,C or G



&lt;400&gt; 48

gnnnnnnnga	ntgggccctc	tagatgcatg	ctcgagcggc	cgccagtgtg	atggatatct	60
gcagaattcg	cccttgccgc	ccgggcaggt	acagcatcac	cacaggtttc	tgggaaggaat	120
caaatatgtg	ggttggaaga	aagaacgtgt	agtagcagag	ttttgggatg	ggaaaatcgt	180
gttggttctg	ccacatgac	caagctttgc	tatcaaaaag	gtagaagatg	tccaagaact	240
tgttgataat	gaattgggct	tccagcaagt	tgttcctaaa	tgtccaaaca	aaataaaaaac	300
ttttcttttt	atatctgatg	aaaagagagt	agttgggtgt	ttaattgcag	aacccatcaa	360
acaggcattt	cgtgtcctgt	ctgaaccaat	tgggtccagaa	tccccaagct	ctacggaatg	420
tcctagggct	tggcaatggt	cagatgcacc	tcggccgcga	ccacgctaag	ggcgaattcc	480
agcacactgg	cggccggttac	tagtggatcc	gagctcggta	ccaagcttgg	cgtaatcatg	540
gtcatagctg	tttctgtgtg	gaaattgtta	tccgtcaca	attccacaca	acatacgagc	600
ccggaagcat	aaagtgtaaa	gccctggggt	gcctaattgag	tgagctaact	cacattaant	660
gcgttgcgct	cactggccgc	tttccagtcn	ggaaacctgt	cgtgccagct	gcattaatga	720
atcggncaac	gcgcggggga	aaaagcgggt	gcgtaattgg	gcgctctttc	cgctttcttg	780
nttacttgac	tccttgggct	tcggccgttc	ggntgcggnn	aacggnatte	aacttactca	840
aaaggcggna	atacgggtatt	cccngnaatc	nggggataac	ccccggaaan	aactttgacc	900
naaaggcccc	caaaaggccc	ngaacccgna	aaaaagggn	cgnnnnnnnn	ggggtttcct	960
aaggttccgg	ccccctggnn	aggtttccca	aaaatngnnn	cctttnnann	nnnnngg	1017

&lt;210&gt; 49

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)... (1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 49

ggngnnnnnn	anatnaaacg	ccagcttggt	accgagctcg	gatccctagt	aacggccgcc	60
agtgtgctgg	aattcgccct	tgagctggcc	gcccgggcag	gtactgaaat	tactctgaat	120
tcagaaatgt	aagtatatgc	agctaggtca	taaagacact	gctttagaga	agacatgtat	180
tagtggaatg	gaacaggtaa	catctttgag	aagtcaatga	gttctgcatg	cagggatttc	240
accatcgga	tgatggcaag	aatgatgcct	gcctgtgtgc	ttctcagagg	acgtataaag	300
ccactgagga	tgagtgtctac	agtgtctgtg	aattgtgggg	ccacagacat	ttaagttggc	360
attgcttttc	tcctcctctg	cttaatccac	ctttataaat	atggcagatg	gcttaagaca	420
ggcatcatca	gcatctctgg	agatgtgggc	tcagagggca	agtgggggcc	gtgggggttt	480
ccactagagg	gaggggaagt	tctgtttccc	atgtgttagt	tgtagtgtgc	tttgtgcttc	540
accagaaaag	aggtagagtg	cgcaccttca	cactaagagc	ccgaaattgt	gggtcagtac	600
tttttttttt	ttnnnttttt	tggtnttttt	tnnnnnnnnn	nnnnntnnnn	ngnnnnnnnt	660
ttnntttnnn	ngnnnnnnnn	nnnnnnnnnn	tttnntnngg	nnnnnccttn	nnnnnnaann	720
nngnnnnann	ncnnnnnnnn	tngnnnnnnn	nnnnncnttn	ngggnnnang	ncccnannnn	780
nccnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnccnannn	nnnnnnntnn	840
nnnaaanncn	ttnnnnnnnn	nnnggnnnnn	nnntttnnan	nnnnnnnnnn	nngnnnaann	900
nnnnnnnnnn	nnnnnnnnna	annnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	960
nnnnnnnann	nnnanngggn	nnnnccnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnttt	1020
nngg						1024

&lt;210&gt; 50

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)... (1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 50

ggagnnnnnn	ntnncngant	gggccctcta	gatgcatgct	cgagcggccg	ccagtgtgat	60
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ggatatctgc agaattcgcc cttagcgtgg tcgcggccga ggtacactga cttgagacca 120
ggtgaataaaa agtgcacacc ttataaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaanaana ntataaaatc tttnaaggta aagntnnnncn ntnaaaatct tttaggggna 300
tcntatann nnttttcgnn tntttnnngg ntngncctct nntnccnnnt tttttnggna 360
anccnaann cccngnctta ccnatgngn cananttaaa anggtncntt nttngnggga 420
nctcannncc cccgccnttt tnttnngggg ggnttnncca nngngnggna aatgcncngc 480
tnatnaanan gggnttnntc cnaaatnngn naanccctga gngngnaanc ntntggngct 540
tnntnngat tnnngnaccc ccncnngcag anntcnttgn nnccttantn cgggggngta 600
nacccttctt ttaaaancnc nntgntntna aaaannnttt ncctgancna tcgggntaaa 660
ncnnnttttt tgaaaaccnn ggcttttttn aanangctcc gntnggcnaa ctttggggaa 720
naaggntttt ttttaaggcct tgcttttttag ggccanccta angnggannn ncngttgngt 780
tgnnngatgg ttttttagggg tttccgggtg ggaccnttnt tgggggggaaa ttttggngcn 840
aggggntccc cttnnaagaaa tccnnnttcc nggncncnaa ttncnnnaaa aattnggggn 900
ccnaaanntt tnattgggaa ggncccttgg ttgccccntt aaanggnccn naaaccttta 960
aanggggggn gcntttaatg gncctttcn ggncccnaaa aaanggggnc ccccnntttt 1020
nagg 1024

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<210> 51
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

```

```

<400> 51
gngnnnnntt aactcccgct tggtagcgag ctcggatccc tagtaacggc cgccagtgtg 60
ctggaattcg cccttagcgt ggtcgcggcc gaggtacttt ttttttcttt tctttctttt 120
tttttttttt ttttaatttt gagatggagt tttgctcttg ttgcccacgc tggagtgcaa 180
tggcgcaatc ttggctcatt gcaacctcca cctcccgat tcaagcgatc cttctgcctt 240
agcttcccaa gtagctggga ttatagacgt gtgccaccat tcccagctga tttttgtatt 300
tttagtagag atgggggttt accacgttgg ccaggctagt ctcgaaactcc cgacctcatg 360
tgatcctccc accgcagcct cccaaagtgc tgggattaca ggcgtgagcc accatacccg 420
gttgattgta gacttttgat tggattttac aaggacccat gagaggcaac aaagagaagt 480
tgtcaagaga acagaccctg agaccaatag tttggctcaa gctctggctc cctaacttcc 540
taccagtttg accttgggca agttacctaa catctttgtg cctccatttt ctatttghtaa 600
aaggaaacta atagtagtgc ctactttata atagagttat tacaatatatt aaatgagtta 660
atatttghta agtaattaga aaaatgcctg gcacttcaaa agcagccttc atttattctt 720
tggaataaat tttaaatgaa ttcaagggtt atatgtagct ttttaggcata tatncctaaa 780
tggcactgta aaactgcana aatatccgat ctttaaaaat ttttgggtaa atttatcata 840
atatggnaac caaatcccat ttaatggcct ttaggggtan ccgatnaaaa ccngaatgtt 900
gcagtttaag ccncttatgg aanggggacc gaaattccaa ggancannn gggaaaaaac 960
ccnngagga atnttggcgg nttaantta aancctttgg gtnntttaag nncctaaaaa 1020
nttt 1024

```

```

<210> 52
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

```

```

<400> 52
gngnnnnntt tnnnttcng antgggccct ctagatgcat gctcgagcgg ccgccagtgt 60
gatggatatt tgcagaattc gcccttcgag cggccgcccg ggcaggtact tcaaaactat 120
tcataagcaa aaatcagtgt caaaaatatt tagtaactta aaaaaaacia aaagtataag 180

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tagagacgga	caagaactcc	tctgtcttcc	tcccactggg	ctcatcgat	ttctgttcca	240
ttacataaga	gactaaaact	gacaaaactct	gttttatcgc	taacaccta	aagcaataaa	300
tgtgatttgt	taccatatta	tgataaaaatt	taacacaaaa	atttttaaaga	tcggatattc	360
tgagttttac	agtgacattt	atgtatatat	gcctaaaagc	tacatataaa	ccttgaattc	420
atttaaaatt	atttccaaag	aataaatgaa	ggctgtcttt	gaagtgccag	gcatttttct	480
aattacttta	caaataattaa	ctcattttaat	atttgtaata	actctattat	aaagtaggca	540
ctactattag	tttcttttta	caaataagaaa	atggaggcac	aaagatgtta	ggtaacttgc	600
ccaaggtcaa	actggttaga	agttagggag	ccagagcttg	agccaaacta	ttgggtctcag	660
gggtctgttc	tcttgacaac	ttctctttgn	tgctctctcat	gggtccttgt	aaataccaat	720
caaaagtcta	caatcaaacc	gggtatgggg	ctcacgcctg	taatcccgag	actttgggga	780
ggctgcggtg	gggaggatcc	ccatganggt	ncggagttcg	agactagcct	gggccaacgt	840
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tataatccca	cttccttggg	aagcttaagg	ncnnaaggac	gcttgggaaac	ccggaanggn	960
gnggttcaat	ggancccaaa	atgngccatt	ggnctttcnc	gngggccaac	angagccaaa	1020
ntcc						1024

<210> 53  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (1024)  
 <223> n = A,T,C or G

gggnnnnnnn	tnncttaacg	cccgnntggg	accgagctcg	gatccctagt	aacggccgccc	60
agtgtgctgg	aattcgccct	tagcgtgggc	gcggccgagg	tacattactt	ggtgttaaca	120
ttgttggcag	tggtagcccc	ttttcagaaa	gcaacttgct	gtaagtcagg	gtgtccgctc	180
caaccttcag	ctagtgaaaa	ggtagtaaca	aatggtaaac	aagagaatga	ttgtttaaac	240
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<212> DNA
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<220>
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<222> (1)...(1024)
<223> n = A,T,C or G

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aang 1024

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<210> 58
<211> 1024
<212> DNA
<213> Homo Sapien

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<220>
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<222> (1)...(1024)
<223> n = A,T,C or G

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atggggagcc aagagatacc atcaaaattt aatggagggg tcagacactg tgtagtgat 240
taatgggcat caacagacat tgggctagt tttgtttttt ttttttaact ggggtcctag 300
aaagaagggg acagaagagg ttccaaaata cagttgggaa atgtggacat tatggttcat 360
tgtaagtcac cgccattgcc tgaggggaag gaagaaagtt aacagcatcc accgtattga 420
gggcattccc acatgctgtg ttagggacag ttagatactg ctaggtgagt aacgggagat 480
aattgttcat catcgtgagg gaaaaatcaa taaggaggat cacaagacat cctgctagag 540

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ggcc						1024

&lt;210&gt; 59

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 59

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ggga						1024

&lt;210&gt; 60

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 60

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tnnn						1024

&lt;210&gt; 61

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 61

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ttgc						1024

&lt;210&gt; 62

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 62

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gccccnngg	gaaaaaagng	gttgcnntat	gggccctttt	tcggttcctt	ggttantgga	1020
atcn						1024

&lt;210&gt; 63

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 63

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tnatntttat	tnagcngcaa	ggtttacttt	ttttctgggg	gaanctttgt	tanccctttt	960
cagggggcaa	aaccgggttt	ccaaaaatnc	ccttaanaat	tnccaaanc	cncncnttt	1020
ttaa						1024

&lt;210&gt; 64

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 64

ggagnnnnnn	ttnngtttcc	gaattggggc	ctctagatgc	atgctcagac	ggccgcccag	60
gtgatggata	tctgcagaat	tcgcccttag	cggccgcccc	ggcaggtaca	gccaaacggt	120
tcccttgggg	gctttgaaat	aacaccacca	gtggtcttaa	ggttgaagtg	tggttcaggg	180
ccagtgcata	ttagtggaca	gcacttagta	gctgtggagg	aagatgcaga	gtcagaagat	240
gaagaggagg	aggatgtgaa	actcttaagt	atatctggaa	agcggctctg	ccctggagggt	300
ggtagcaagg	ttccacagaa	aaaagtaaaa	cttgctgctg	atgaagatga	tgacgatgat	360
gatgaagagg	atgatgatga	agatgatgat	gatgatgatt	ttgatgatga	ggaagctgaa	420
gaaaaagcgc	cagtgaagaa	atctatacga	gatactccag	ccaaaaatgc	acaaaagtca	480
aatcagaatg	gaaaagactc	aaaaccatca	tcaacaccaa	gatcaaaagg	acaagaatcc	540
ttcaagaaac	aggaaaaaac	tcctaaaaaca	ccaaaaggac	ctagttctgt	agaagacatt	600
aaagcaaaaa	tgcaagcaag	tatagaaaaa	ggtgggtctc	ttcccaaagt	ggaagccaaa	660
ttcatcaatt	atgtgaagaa	ttgcttccgg	atgactgacc	aagaggctat	tcaagatctc	720
tggcaatggg	agaagtctct	ttaagaaaat	agtttaaacc	atttggtaaa	aaattttccg	780
tcttatttca	tttctgtacc	agttgatatc	ctgctgtcct	ttttataatg	cnaagtggag	840
aactttccct	accggtttgg	ataaatgttg	gncaggttct	attgcccaag	aatgtgtgnc	900



```
ccaaaatgcc cgntagtttt tnaagatgga acttcacccn tttgcttggn ttttaagtatg 960
nntngaangt ntgatnggac cntatnntna ccgnggncaa ccttggnaaa tgggtggggag 1020
acaa 1024
```

```
<210> 65
<211> 1024
<212> DNA
<213> Homo Sapien
```

```
<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G
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```
<400> 65
gggnnnnnnt aactnnacgc ccgcttggtg ccgagctcgg atccctagta acggccgcca 60
gtgtgctgga attcgccctt agcgtgggtc cggccgaggt actctgctga tctctgcctt 120
gtaatggaaa tgtttcattc attaatgtta ttgatatggt tgcactatgt ccgtaatttt 180
gctttttgtg tatctgtcta atgtttttta ttctcctttt tctctttttac tattttcttt 240
taaatataagt aaatagttcc taacgtagta ttttattttc ttaaaataaa tcaaactcac 300
ttataaaaata tatttcatat tactttctta tcgattgctg tatgccttac aacatacatc 360
ttatcagact caacattttat agtaacataa atccattgag acatagtaac attaattctt 420
tataggctta tttattctac ttattcaata attgttatat atatattaca tctacatggt 480
acaaacacaa aaatatattg ttataatgct tgtttttatg taattttatg tcttttaaag 540
aacatgagag aagaaaggaa agcaaagtaa ctattagcat tgttatgtta acattattct 600
ttacaatttc tggttctctt catttttttc ctgttgattc aagttgtatc ttagtgcatc 660
ttcatttctt taatacaact ttgctccaat tatttctttt gtgctcttaa tgtcaaatat 720
attaagtttt gnttgcatta taggctcaac actattatac atatattggt ttatgcattt 780
attttgaaatt aagagaaaat aaaaatatgc aatttaattg cttatatact attcatataa 840
ttacctcta tgagggtnc aatatatagn attccaaccn tatttataaa ntccaaanta 900
cctggtangt gccnaaaggc tcctaagcct attagcccg gaaaaaaatc cctgggtant 960
tccttggnaa gggagggttg attgccacca acctntttta natnggggtg ggttttaata 1020
aacc 1024
```

```
<210> 66
<211> 1024
<212> DNA
<213> Homo Sapien
```

```
<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G
```

```
<400> 66
ggagnnnnnn ttngntnngg gccctctaga tgcattgctc agcggccgcc agtgtgatgg 60
atatctgcag aattcgccct ttcgagcggc cgcccgggca ggtactccag cctgggtaac 120
agaggggagac tctatgccaa acaaacacaa aaacacacaa acaaacacaa gagaccagaa 180
agcaatgaga tgaaatgttc aaagtgtgta aagaaaaaaa aaggtaacc aaaagtctta 240
tatccagaat atttttcaaa gtataaaagc aaaatacatt ctcagataat aaaaacaaaa 300
caaaactaaaa gagtttgttg ctatcatacc taccttaca gaaatactca gtgatttttt 360
tcaggctaat aggctaggag catttggcac ctaacagtaa tttgaattta tatatatgtt 420
tgtatacata tatatggaac actcatagag gtaattatat gaatagtatt ataagacatt 480
aaattgcata tttttatttt ctcttaattc aaaataaatg cataaaacaa tatatgtata 540
atagtgttga gcctataatg caaacacaaa taatatattt gacattaaga gcacaaaaga 600
aataattgga gcaaagtgtg attaaagaaa tgaaatgaca ctaagataca acttgaatca 660
acaggaaaaa aatgaagaga accagaaatt gtaagaata atgntaacat acaaatgcta 720
atagtacttt tgctttctct tcttctctca tgntctttaa aagacataaa attacataaa 780
aaccaagcat tataacaata taattttggg tttggaacat ggtagatgta tatatatata 840
ccattattgg ataagtagaa taaataggac tattaaggaa ataatggtac tatggctcaa 900
tgggantaag gtacctataa nggtgagcct gganaggaag natgttgnaa ggcttccggc 960
aatcgggtta gaaagtantt tggaaatata ttttnatnaa gnggggttga ttaatttagg 1020
```



aaaa

1024

<210> 67  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

<400> 67  
 gagnnnnnnnt taactccagc ttggtaccga gctcggatcc ctagtaacgg ccgccagtgt 60  
 gctggaattc gccctttcga gcggccgccc gggcaggtagc tttttttttt tttttttttt 120  
 ttttgaaaaa tgagattttt gactttaaca aaacaaatac agattgaatt taccaaatat 180  
 tgataattca tgtanaacgg gtgccacaga ttttaaagta tcaaaaccaa gagggcatca 240  
 caaaataaac tttggtgaaa aatatcttca tcaaagaaga aaatatgaga agagtagtcc 300  
 ttatgcagtg aggagaaata tatttggtaa agtaaataat ggtagtagat actgaatcta 360  
 tagatagcat atattccaaa tgttttttag ggaatatcaa atcagatgat gcttanatgt 420  
 tatagtaata tcacttatct catttggaat gaaatttaat gttttttaat aaatagcaaa 480  
 ttttcatttt ttactacct ttataaaaca aattaaatat ttagagtata actgatacata 540  
 actaacatca ccttgcattt actaataaat actctaaata catttggttt attattggaa 600  
 tttatatcct tataatttta cctgctagaa attagtgaac ttgtggcatt atgttttaag 660  
 tttacatttt ccagtgatg tgaacagtat ttatacntaa aatggatatc tgnccaatga 720  
 atagtaacca tgtttggtgg tttaaaaaac gnacatggtt tagtttgaca ttggcatgtc 780  
 tcttcagaaa ttnaaaaggc atcntttaag ggaatggctt tnggaaatca ttaataaact 840  
 accntctggg aaaangaatn ccaatttcaa gaagctacct aantagaact cagaccccn 900  
 gggcagggtg tttggnanaaa angctttcaa ttncaaattn nttntccggn gnaaacggaa 960  
 ngggaccctt annngnntgg accnccttcc cngnaaactg gtttttaaat aaaaatttcc 1020  
 gnncc 1024

<210> 68  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

<400> 68  
 gnnnnnnnnn ntnnnntcga attgggccct ctagatgcat gctcgagcgg ccgccagtgt 60  
 gatggatatc tgcagaattc gcccttagcg tgggtcgggc cgaggtagct agtagatcta 120  
 ctgagattaa acgggacctg tttggagcag aaccttttga cccatttaac tgtggagcag 180  
 cagatttccc tccagatatt caatcaaaat tagatgagat acaggagggg ttcaaaatgg 240  
 gactaactct tgaaggcaca gtattttgtc tcgaccctgt agacagtagg tgctgacatc 300  
 aagaacaaga aatcctgatt catgttaaat gtgtttgtat acacatgtca tttattatta 360  
 ttactttaag ataggattta ttcatgtgtc aatgttttta aatattttta tttttgaaa 420  
 attttctcag ttaaatttcc tcaccttcac tattgatctg taatttttat tttaaaaaca 480  
 gcttactgta aagtagatca tacttttatg ttccctttctg tttctactgt agatgaattt 540  
 gtaattgaaa gacatattat acaaatacct gccttgtgtc tgagttctat ttagttagca 600  
 tcttgaaatt tgtattcatt ttccagatgg ctagtattat aatgatttcc caaaagccat 660  
 accttaaaaga taacttttta aattctgaag agacatgcca atggcaaact aaacatgggtc 720  
 tggtttttaa ccaaccaaca tgttactatt cattgggaca gatatacatt tatggataaa 780  
 tctggtcaca tactggggaà atggaaactt taaacataat ggccccangg cactaatttc 840  
 ttaccggtaa aaatnttang ggtttaaant nccatattna acccnatggg tttaaaggat 900  
 ttattntaaa ngcnngggga ngtannttg acagntnncn ctaaaanttt aaatggggtt 960  
 ttaaaggtn taaaaaanga aaaattgctt ttttttntaa acctttaant cntttccnag 1020  
 ggnn 1024



<210> 69  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 69  
gggnnnnnnn tnncttanac gccnngcttg gtaccgagct cggatcccta gtaacggccg 60  
ccagtgtgct ggaattcgcc ctttcgagcg gccgcccggg caggactacc ggtcgggtgtc 120  
agcagcacgt ggcattgaac attgcaatgt ggagcccaaa ccacagaaaa tggggtgaaa 180  
ttggccaact ttctattaac ttatgttggc aatttttgcca ccaacagtaa gctggccctt 240  
ctaataaaaag aaaattgaaa ggttttctcac taaacggaat taagtagtgg agtcaagaga 300  
ctcccaggcc tcagcgtacc tcggccgcga ccacgctaag ggcgaattct gcagatatcc 360  
atcacactgg cggccgctcg agcatgcac tagagggccc aattcgccct atagtgtgtc 420  
gtattacaat tcaactggccg tcgtttttaca acgtcgtgac tgggaaaacc ctggcggttac 480  
ccaacttaat cgccttgagc cacatcccc tttcgccagc tggcgtaata gcgaagaggc 540  
ccgcaccgat cgccttccc aacagttgag cagcctgaat ggcgaatgga cgcgcccctgt 600  
agcggcgcat taagcgcggc ggggtgtggtg gttacgcgca gcngtgaccg ctacacttgc 660  
cagcggcccta cgcccgtcct ttcgctttct tcccttcctt tctcgccacg ttcgcccggct 720  
ttcccgtca agctctaaat cgggggctcc ctttttagggg tccgaattan tgcctttacgg 780  
accttgaccc caaaaaactt gantanggtg atgggtcacg taatgggccc atnggccttg 840  
anaagacggg ttttcgccc ttgacngttg gaggccacgt tctttaaag gggactcttg 900  
gttccaaact ggaacaaccn nttaancctt atttngggct aatcctttgg aattaatnag 960  
ggattttgcc caatttgggc ccttnggtta aaaaaagggg cttgntttta caaaaaattt 1020  
aacc 1024

<210> 70  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 70  
ggagnnnnnn ttngttttgg gccctctaga tgcattgctcg agcggccgccc agtgtgatgg 60  
atatctgcag aattcgccct tagcgtggtc gcggccgagg tacgctgagg cctgggagtc 120  
tcttgactcc actacttaac tccgtttagt gagaaacct tcaattttct tttattagaa 180  
gggccaactt actgttgggt gcaaaaattgc caacataagt taatagaaag ttggccaatt 240  
tcaccccat ttctgtggtt tgggctccac attgcaatgt tcaatgccac gtgctgctga 300  
caccgaccgg agtacctgcc cgggcggccg ctcgaaaggg cgaattccag cacactggcg 360  
gccgttacta gtggatccga gctcggtaacc aagcttggcg taatcatggg catagtgtt 420  
tcctgtgtga aattgttatc cgctcacaat tccacacaac atacgagccg gaagcataaa 480  
gtgtaaagcc tggggtgcct aatgagttag ctaactcaca ttaattgcgt tgcgctcact 540  
gcccgttttc cagtcgggaa acctgtcgtg ccagctgcat taatgaatcg gccaacgcgc 600  
ggggagaggc ggtttgcgta ttgggcgctc ttccgcttcc tcgctcactg actcgctgcg 660  
ctcggctcgt cggctgcggc gaggcggtatc aagctcactc aaaggcggta atacngttat 720  
ccacagaatc aaggggatac gcaggaaaga acatgtgaac caaaaggcca caaaaggcca 780  
ggaacccgta aaaaaggccg cgttggcttg cgttttttcc atangcttcc ggcccccttg 840  
acgagcatca ccaaaaatcg acgctcaagt tcaaagggtg cgaaancccg accggactnt 900  
taagaatccc agcgttttnc cctggaactt ccttggcgcg tttctggtt ccaaccttgc 960  
cgttaccgga tacctggncc gcntttttcc ctttngggaa accngggcgt tntcaaaant 1020  
taac 1024

<210> 71  
<211> 1024



<212> DNA  
 <213> Homo Sapien  
 <220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

<400> 71  
 gagnnnnnnnt taactcccg c ttggtaccga gctcggatcc ctagtaacgg ccgccagtgt 60  
 gctggaattc gcccttagcg tggtcgcggc cgaggtagctt tttttttttc tttttttaca 120  
 tctgatttta atgcttcggt aacttcaaaa ggaactggta gagttcagaa ggtgagctgt 180  
 tgttttttcta aacctcttcc caggaagggg acattgacac ttgaattttt gtcacctttt 240  
 tcctcattag aaggaaagta gaaagcctta ctgtaggatt tttaaaaaaa aatccatctc 300  
 accccatatt ggtcttaaat aagtatagac taattaacct aagctacctt taacaacgta 360  
 gaatttagat gggttcatat atgtgagaaa aacctgaata taggacaggg gtcctacttt 420  
 tttccccacc tctgtcgccc aggctagagt atagtgggtg gatcttggcc cactgcaacc 480  
 tctgcttcct aggttcaagt gattctcctg cctcagcctc ccaagtagct gggattgtaa 540  
 gagtatgcca ccacgcccag ctactttttg tattttttagt agagacaggg tttcatcatg 600  
 ttggccagga tggctcttta actcctgccc tcaagtgatc caccagagag gagatcctcg 660  
 gcctccccc aa gtgctgggat tataggcatg agccaccgtg cccagcctac tttctaatta 720  
 attaaaaaaa aaaaaaaaaaac ttcccaaagt agctgataaa aaactgacgt gaggctgctt 780  
 tgccttcaat aatacctagt tttcagctgt tccaactcgt ttccaaattg gaaattanct 840  
 ggaacnccac tacagtaatc ttcanggaan gggaaaatta ggccttaaaa gaatccccag 900  
 aaagttcanc atnggnancc tgnccnggcc ggnccgttca aaangggcna aatttgcaga 960  
 aattccatna cacttggcgg gccgttcgan catggctttt aangggccca attgncctt 1020  
 aaag 1024

<210> 72  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien  
 <220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

<400> 72  
 gnagnnnnnn ttnnnttccg aattgggccc tctagatgca tgctcgagcg gccgccagtg 60  
 tgatggatat ctgcagaatt cgccctttcg agcggccgcc cgggcaggta ccatgctgac 120  
 ttcttggtat cttttaaggc ctaattttcc cttccttgag attactgtag tgtgttccag 180  
 ctaattttcta tttggaaacg agttggaaca gctgaaaact aggtattatt gaaggcaaag 240  
 cagcctcacg tcagtttttt atcagctcat ttgggaagtt tttttttttt ttttaattaa 300  
 ttagaaagta ggctgggcac ggtggctcat gcctataatc ccagcacttg gggaggccga 360  
 ggatctcttc tctggtggat cacttgaggg caggagttaa gagaccatcc tggccaacat 420  
 gatgaaaccc tgtctctact aaaaatacaa aaagtagctg ggcgtgggtg catactctta 480  
 caatcccagc tacttgggag gctgaggcag gagaatcact tgaacctagg aagcagaggt 540  
 tgcagtgggc caagatcaca ccactatact ctagcctggg cgacagaggt ggggaaaaaa 600  
 taggacccc tgtcctatat tcagggttttt ctcacatata tgaacccatc taaattctac 660  
 gttgttaaag gtagcttagg ttaattaagt ctatacttat ttaagaccaa tatgggggtga 720  
 naatggattt ttttttaaaa atcctacagt aaggctttct actttccttc taatgaggaa 780  
 aaaggtgacc aaaantcaag tggcaatggc ccctttctgg ggaaaagttt anaaaaacca 840  
 ccggttanct tntggaactt ttacccagtt cccttttgaa gttaccgaag ccttttaaaan 900  
 cagatgttaa aaaaggaaan nnnaaaaagt ncctttggcc gggaaccnc ttaagggccca 960  
 aattccacac acttgggggg ccgntnccnt anggatccca ncttgggncc aaannttggg 1020  
 gnaa 1024

<210> 73  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien



<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 73  
gagnnnnnnnt tnactttacac gccngcttgg taccgagctc ggatccctag taacggccgc 60  
cagtgtgctg gaattcgccc ttagcgtggg cgcgcccgag gtactgtgtt atggcacaga 120  
caatgcttgc ttagcgggtgc cttgtttacat aggtgggatgc agagtgcgca cacgggatga 180  
tggcaataaa gacctcactc agtcgttggg atgaaggaac taggtaactg cttcaacaag 240  
gacggctctca gctctacctt atctctcaac agagtgcgca cactgagtgt gagctcagat 300  
gtcatcttgt tcctctttta aattcaccaa attcttttgc acatttttct gttatagaga 360  
cacggatata ttcttcttca tagtcatcaa agttgctggg atctccagag cctctaaact 420  
ttggtatgaa tggagcttca accttctctt ggtaaatagc aatccaatct gtcgtggcaa 480  
accacttggt agttttttata tcaactgacac cattcttttag atttccaaat ctcttgatca 540  
aatccacctg cagcagggtc cgtagaaggg ccttgagatc tgaactgaag tgggatggga 600  
atcggacctt tccagaaaca atcttttcat aaatctgaat tggttgggtc gcaaagaatg 660  
ggggatagcc agctgccatt tcatagatta gcaactcctaa tgcccaccaa tccactgcct 720  
tattgnagcc cttgctgaga attatttctg gagccaaata cctctggagt tccacataat 780  
ggccaagttc tgcctttaac tcttttggca aacccccaaa gtctgtgacc cgggatatag 840  
ccctgatggg ccaattttaag aagaattttc anggggttaa aaactctggg aaatgaaggc 900  
taanggaat ggaggnacct tttttttttt nnnnnnnntt ttttttttaa acnttgtaaa 960  
aggccaaaat tttggctana anttantttc aaagnttnaa acnttttcca aatttttttt 1020  
taat 1024

<210> 74  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 74  
ggagnnnnnn nttgagttcc ggccctctag atgcatgctc gagcggccgc cagtgtgatg 60  
gatattctga gaattcgccc tttcgagcgg ccgcccgggc aggtacagtc aactgcattt 120  
ttctctgggt accaagcttc cactgacaag gaagaggatt atattcgtaa tgcccatggg 180  
ctgatatact actacatccc taaagaatta agtgatgact tatctaaata cttaaagcct 240  
ccagaacctt cagcctcatt gccaaatcct ccataaaga aaataaagtt atcagatgag 300  
cctgtagaag caaaagaaga ttacactaag tttaatacta aagatttgaa gactgaaaag 360  
aaaaatagca aaatgactgc agctcagaag gctttggcta aagttgacaa gagtgggatg 420  
aaaagtattg ataccttttt tggggtaaaa aataaaaaaa aaattggaaa ggtttgaaac 480  
tttgaaaata aaatctagca aaaatatttg cttttttacat gttttaaaaa aaaaaaaaaa 540  
aaaaaaaaaa aagtacctcc attcactaga cctcatctac agagatctaa aacctgaaaa 600  
tctcttaatt gaccatcaag gctatatcca ggtcacagac tttgggtttg caaaagaggt 660  
taaaggcaga acttggacat tatgtggaac tccagagtat ttggctccag aaataattct 720  
cagcaagggc tacaataagg cagtgggatt ggtgggcatt aggagtgcta atctatgaaa 780  
tggcactggc tatccccatt cnttgcagac ccaccattc agaattttatt gaaaaagatg 840  
gttcttggaa ngncgaatt cccattcccc ttcagntcna actcaagggc ctttttacgg 900  
aancctggtt gcanggggga ttgatccagg anaatttggg aatcttaaag aaaaggggnc 960  
cggggtttta aaaacctcnc aagnggggtt gccccancg naatgggatt ggtttttccc 1020  
ccna 1024

<210> 75  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>



<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 75

gagnnnnnnt	taactcccgc	ttggtaccga	gctcggatcc	ctagtaacgg	ccgccagtgt	60
gctggaattc	gcccttagcg	tggtcgcggc	cgaggtacta	tatgtathtt	attaaaaatg	120
tggaagatta	atctgtttct	ctctgaatgt	agatttttcac	caaaacatct	cttaaaacag	180
cagggactca	acacttaaaa	atgaactaga	agagctgggc	acagtggctc	acgcctgtaa	240
tcccagcact	ttgggaggcc	gaggcgggca	aatcacttga	ggtcaggagt	tcgagaccag	300
cctggccaac	atggtgaaac	cctgtctcta	ctaaaaacac	aaaaattaac	tgggcatggc	360
ggcacacgcc	tttaatccca	gctactcaag	aggctgaggc	aggagaatcg	ctttgaacct	420
gggaggcaga	ggttgacgtg	tgctgagatc	ataccactgc	attccagcct	gggcgacaga	480
gcaagactcc	acctcaaaaa	aaaaaagaag	aaaagaaaat	agtagtctca	gccaggcgtg	540
atggctcaca	cctgtaatcc	cagcactttg	ggaggccaag	gtgggcagat	cacctgaggt	600
caggagtctg	agaccagcct	ggcctacgtg	gcaaaacctc	atctctaata	aaaatacaaa	660
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gagaagtcgc	tttgaacctg	ggangcagaa	aattgcgggtg	aagctaagat	cgcacgactt	780
cacttccacc	tgggcaaaaag	anggaactct	atctcaaaaa	aaaaaaaang	aaaaagtagt	840
ctntaagaca	ctgggcaaac	cttgaaagga	attgagcagt	cctcactttt	ctgnagtcan	900
tttgntnaat	gccacatggc	tcttttgnaa	gaaatttgag	agcttttttc	taatcccaat	960
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gcct						1024

<210> 76  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 76

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ctggcttctt	ttctgcaca	caatgcctat	gagaccataa	ctaaagtcaa	attccatggt	180
cactaaccaa	taatggcatc	tcaaagaaat	tccaacctag	agaaattctg	atgatgtggt	240
tagaacacca	atcaggacac	tactttcatg	gttgataaatt	cccgacatgc	actgattcag	300
acccagctta	ttgaattcat	tgagtccaca	ggccagcact	ttgcctgact	gggtcaacag	360
aatgtccca	tcacagccac	attgaactgc	aacaataatc	aaggccttgg	gaacatccac	420
ctgcaagaaa	aaaaatcagaa	aaagaaatcc	caaatatata	attcgtatta	gaaaaaaagc	480
tctcaaattc	tttcaaaaga	gacatgctgc	atttagcaga	atgactacag	gaaagtgagg	540
actgctctat	tcttttcagg	tttgcccagt	gtcttagaga	ctactttttc	tttttttttt	600
tttgagatag	agtttccctc	ttttgcccag	gctggagtga	agtcctgctg	atcttagctc	660
accgcaatct	ctgcctccca	ggttcaagcg	acttctcctg	tctcagcctc	ccaaatagct	720
gggatgacag	gtgcatgccca	ccacgcccag	ctaatttttg	gattttttatt	agagnatgag	780
gttttgccac	gtaggccaag	ctggncttga	acttctgacc	ctcaagtgc	tggccaccct	840
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atttcttttc	ttcntttttt	ttttggnggg	gagcttgctn	tgcncccaag	ctgggaaagc	960
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nccc						1024

<210> 77  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1024)



<223> n = A,T,C or G

<400> 77

gagnnnnnnt	aacttacacg	cccgttgggt	accgagctcg	gatccactag	taacggccgc	60
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ttttttttac	agaaggctgt	aaagctttat	tgggagaatt	ttaatgaaca	aattttccaac	180
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ttcttcaggc	gttttcacct	cctctggatt	tggcgggtcc	atctcctgcc	catcaggacc	300
atcttcacac	tcacacccag	tctgtgggtg	accctgttcc	tggctatgag	cttcaggctt	360
cggcccttga	cctgcanatg	ctccctcatc	ctctccctcc	tgagcagctg	caggatcctg	420
acgttgagtt	gctggttccc	cttcttcagg	tgttgctggg	tccgcttcat	cactgaactg	480
ctcggggcgc	ataggcccaa	tcatttcagg	aggctgnacc	tgcccggggc	gccgntcgaa	540
agggcgaatt	ctgcagatat	ccatcacact	ggcggccgnt	cgagcatgca	tctagagggc	600
ccaattcgcc	ctatagttag	tcgtattaca	attcactggc	cgctgtttta	caacgtcgtg	660
actgggaaaa	ccctggcggt	acccaactta	atcgccttgc	agcacatccc	ccttttcgcca	720
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aagggcnaaa	tggacncccc	tggaaaggcc	attaaccccc	gcnggnnnnn	gggtaccccn	840
caangngacc	ggtacacttg	gcaangccct	aacgcgccgt	ccntttgntt	ttctttcctt	900
tcnttttngc	acgttnnncc	gggttttccc	ggnaagctnt	naaatngggg	ggccccntt	960
tngggctcna	ataaggcntt	tagggncctt	ggnccccnaa	aaatttgntt	ttnnngggan	1020
ggtc						1024

<210> 78

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 78

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ttgggcctat	gcggcccgag	cagttcagtg	atgaagcgga	accagcaaca	cctgaagaag	180
gggaaccagc	aactcaacgt	caggatcctg	cagctgctca	ggagggagag	gatgagggag	240
catctgcagg	tcaagggccg	aagcctgaag	ctcatagcca	ggaacagggg	caccacaga	300
ctgggtgtga	gtgtgaagat	ggtcctgatg	ggcaggagat	ggacccgcca	aatccagagg	360
aggtgaaaac	gcctgaagaa	ggtgaaaagc	aatcacagtg	ttaaaagaag	gcacgttgaa	420
atgatgcagg	ctgctcctat	ggttgaaaatt	tgttcattaa	aattctccca	ataaagcttt	480
acagccttct	gtaaaaaaa	aaaaaaaaa	aaaaaagtac	ctcggccgcg	accacgctaa	540
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aacatacgag	cccgggaagc	taaagtgtaa	agcctggggg	gcctaattgag	tgagctaact	720
cacattaatt	gcgttgccgc	tcactgccc	ctttncagtc	gggaaacctg	tcgtgccagc	780
tgcattaatg	aatcggncaa	cgccccgggg	aaaaagcggg	ttgcgtattg	ggcgctcttc	840
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cttacttcaa	angcgggaaa	tccggttttc	cncggaaatc	aggggaatac	cccnggaaaa	960
gaacttgtag	accnaaaggc	ccnccaaaag	gcccnngaac	cgtaaaaaan	ggccccntnn	1020
nntn						1024

<210> 79

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(1024)

<223> n = A,T,C or G



&lt;400&gt; 79

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gcttctttct	ccaggaaaga	tcaaaacgat	gcactgcaag	gttaacatcc	aatttttaaat	180
acattgtgat	tggtccagat	agctgcctta	tccaactgcc	tcctttggac	cacttcacatca	240
tgggacagct	tgatgcaatc	tacttgacaa	gacctggaa	ccccacaccc	ctcatggaac	300
cagtgtccac	ctcccagtc	cagtgtgacc	ccagggaact	cttgccctgct	tgcttttaaac	360
ccaccactta	aaagtctcca	cagaaaacct	gtttgaatag	tacctcggcc	gcgaccacgc	420
taagggcgaa	ttctgcagat	atccatcaca	ctggcgggccg	ctcgagcatg	catctagagg	480
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tgactgggaa	aaccctggcg	ttaccaact	taatcgctt	gcagcacatc	cccctttcgc	600
cagctggcgt	aataagcgaa	gaggcccgca	ccgatcgccc	ttcccaacag	ttgcgcagcc	660
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ttacgcccga	gcgtgaccgc	tacacttgcc	agcgccctta	cgcccgcctc	tttcgctttc	780
ttcccttcct	ttttngcacg	ttcgccggcg	ttttcccgtc	agctctaaat	cgggggctcc	840
ccttttaggg	tccgaattan	tgctttacgg	gaccttganc	cccaaaaact	tggnttaggg	900
gtgaggggtc	cgtatgggca	attggccctg	aaaanacgg	ttttcgcccc	tttgaccctt	960
ggaatcncgt	ntttttaaaa	ggggactttg	gtcccaactg	ggacaacnnt	taaccctta	1020
ttng						1024

&lt;210&gt; 80

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 80

gnagnnnnnn	ttnnnttgng	aattgggccc	tctagatgca	tgctcgagcg	gccgccagtg	60
tgatggatat	ctgcagaatt	cgcccttagc	gtggctcgcg	ccgaggtact	attcaaacag	120
gttttctgtg	gagactttta	agtgggtggg	ttaaagcaag	caggcaagag	ttccctgggg	180
tcacactgtg	actgggaggt	ggacactggg	tccatgaggg	gtgtgggggt	ccagggtcct	240
gtcaagtaga	ttgcatcaag	ctgtcccatg	atgaagtgg	ccaaaggagg	cagttggata	300
aggcagctat	ctggaccaat	cacaatgtat	taaaaattgg	atgttaacct	tgcagtgcac	360
cgttttgatc	tttcctggag	aaagaagctg	gtgcaaatga	caaaaacagt	acctgcccgg	420
gcggccgctc	gaaaggcgca	attccagcac	actggcgggc	gttactagt	gatccgagct	480
cggtaccaag	cttggcgtaa	tcattggtcat	agctgtttcc	tggttgaaat	tggttatccgc	540
tcacaattcc	acacaacata	cgagccggaa	gcataaagt	taaagcctgg	ggtgcctaata	600
gagtgagcta	actcacatta	attgcgttgc	gctcactgcc	cgctttccag	tcgggaaacc	660
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gtnaaaaang	gcncnttnn	nnctgngttt	ttccattaag	gttcccggcc	ccttgacagc	960
ctttccaaaa	attcganncc	ttcaaantnc	aaagggggcn	aaaacccnc	cggggctttt	1020
taag						1024

&lt;210&gt; 81

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 81

gngnnnnnnnt	taacttacac	gccagcttgg	taccgagctc	ggatccctag	taacggccgc	60
-------------	------------	------------	------------	------------	------------	----



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cagtgtgctg gaattcgccc ttctgagcgg ccgcccgggc aggtacctca ttagtaattg 120
ttttgttggt tcatTTTTTT ctaatgtctc ccctctacca gctcacctga gataacagaa 180
tgaaaatgga aggacagcca gatttctcct ttgctctctg ctcattctct ctgaagtcta 240
ggttacccat ttgggggacc cattataggc aataaacaca gttcccaaag catttggaca 300
gtttcttggt gtgttttaga atgggtttcc ttttcttag ctttttcctg caaaaggctc 360
actcagtcce ttgcttgctc agtggactgg gctccccagg gcctaggctg ctttcttttc 420
catgtcccac ccatgagccc tccactggac agctcagtaa gcctggccct tcattctgcg 480
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aaggattgtc agacttcaaa cgtaacagca gaaccaccag aaggtcctat aaatgcagta 600
gtgaccttct caagctgtca ggtcttttaa taggatttgg gatttaatgc tatgtatttt 660
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aaaaaannnn nnnaaagagt accttnggcc gggaacacgc taangggcaa attctggcan 840
aaatncatta cactgggcgg gcggtttgag cattgcntnt anangggccc aattngncct 900
ataanggggg cgattacaat tncctgggcc gcgtttttaa acgttnngaac tgggaaaanc 960
ctggggtncc cacnttaatg gccttgngna naatccccct ttncccnan tggngnannn 1020
nncn 1024

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<210> 82

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 82

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gnagnnnnnn ttngtttg gccccttaga tgcattgctg agcgggcgcc agtgtgatgg 60
atatctgcag aattcgccct tagcgtggtc gggccgagg tactcttttt tttttttttt 120
ttttccgtct ccccaaagct ttatctgtct tgacttttta aaaaagtttg ggggcagatt 180
ctgaattggc taaaagacat gcattttttaa aactagcaac tcttatttct ttcctttaa 240
aatacatagc attaaatccc aaatcctatt taaagacctg acagcttgag aaggctacta 300
ctgcatttat aggaccttct ggtggttctg ctgttacgtt tgaagtctga caatccttga 360
gaatctttgc atgcagagga ggtaagaggt attggatttt cacagaggaa gaacacagcg 420
cagaatgaag ggccaggctt actgagctgt ccagtggagg gctcatgggt gggacatgga 480
aaagaaggca gcctaggccc tggggagccc agtccactga gcaagcaagg gactgagtga 540
gccttttgca ggaaaaggct aagaaaaagg aaaaccattc taaaacacaa caagaaaactg 600
tccaaatgct ttgggaactg tgtttattgc ctataatggg tccccaaaat gggtaacct 660
gacttcagag agaatgagca gagagcaaa gagaaatctg gctgtccttc catttctatt 720
ctggtatctc aggtgaactg gtaaaaggga gacatttgaa aaaaatgaaa cnaccaaaac 780
cattactaat gaggtacctg cccnggcngg ccgttcnaaa gggccaattc cacacactgg 840
gcggccgtta cttaatggat ccnaactcgg taccaancnt tgcgtaaata atggggcnnnt 900
actgggttnc ctgggggnaa atggtatncc gttaccaatt ccccccaann ttcgancccg 960
gaanccctta agggtaaanc cctggggggc ctnaagaggg gctaacttcc catttaaatg 1020
ggtt 1024

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<210> 83

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 83

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gggnnnnnnt taanttanac gccnnncttg gtaccgagct cggatcccta gtaacggccg 60
ccagtgtgct ggaattcgcc ctttcgagcg gccggccggg caggtagact taaaattgggt 120
gccgagcagg gatataacct gcagttaagt gaaaagaaaa tccagcctcc cctccaaaa 180

```



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aaaaaaaaa atttaatttt taaaaattag tggatatggca ataagacact tcagaggcta      240
tcttaacctc tgaataccca tcttctagtt taaagacaga gacatcccat ctggaaaatg      300
ttaacttggtg ttgtcatctc gttgccggag taagtagaca taagacagag tttaagaagt      360
aaaaatatag aaaaattttg atgggtcacaa tgagataaat attagaatat tactattcca      420
atgattaaat gaggatcctg aaataaattc tgaagtcttc caattttttac atttattgga      480
ggggtccttg agttctgtca acttttttat ttaagtctct tgctcttatt ttgtgcataa      540
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atagaaaata tgacctgagt agttaaaaaag tattttgcat tatttgcagt aagatgtctc      660
tagcactgct caaagggcaa attttaaaaac ttcagtctgg gtgaaagatt ttgctagttt      720
tacagaaaga tttgctatct taaactcaaa gctgggtttt cttttctcaa tgtaagtgcac      780
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ctaagtgtaa nctatcccaa atgggctatc caaatttgaa tggngccctt catactgnga      960
aggaaaaang tggncctngg ccgggaacac ccttangggc caattttgcg anttcentac     1020
aatt                                         1024

```

&lt;210&gt; 84

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 84

```

gnagnnnnnn ttgagntngg ccctctagat gcatgctcga ggggccgcca gtgtgatgga      60
tatctgcaga attcgccctt agcgtgggtc gggccgaggt acagcattat catctcagta     120
tgtagtggca cacattcaaa atcgtataga ccatatgagg atagattaca acttagaaac     180
taaaataaat ttgttcaaca ctccagacaa catatagtgt agatgacagg aaagctctca     240
tgtaatgttt atttcacaaa catgaccttg gaagaattca taagacagca tccagtcac      300
ttacatgaga aaagaaaaac cagcttgagt ttaagatagc aaatctttct gtaaaactag     360
caaatctttc acccagactg aagtttttaa atttgccctt tgagcagtgc tagagacatc     420
ttactgcaaa taatgcaaaa tactttttaa ctactcaggt catattttct attaaattta     480
ataaaaagta aaagaaagaa agctaacatt tcattttttg aaggtttaac atttatgcac     540
aaaataagag caagagactt aaataaaaaa gttgacagaa ctccaggacc cctccaataa     600
atgtaaaaat tgggaagactt cagaatttat ttcaagatcc tcattttaatc attggaatag     660
taatattcta atatttatct cattgtgacc atcaaaattt ttctatatatt ttacttctta     720
aactctgnct tatgnctact tactccggca acgagatgac caccacaagt taacattttc     780
cagaanggat gtctctgnct ttaaaactaga aagatgggta tttcagaggg taagaatacc     840
ctctgaagtg gtcttaatgg cataccccta atttttaaaa antaaaattt tttttttttt     900
tgggangggg aaggctggat ttcccttcnc ttaacctnga gggatatatcc cctgnttggg     960
acccaatttt aagngnacct ggccccggcn ggccgttcaa aagggcgaat ttccgcncct     1020
gggc                                         1024

```

&lt;210&gt; 85

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 85

```

gngnnnnnnn taacnccagc ttggtaccga gctcggatcc ctagtaacgg ccgccagtgt      60
gctggaattc gccctttcga gggcccgccc gggcaggtac gcggggagag agaagcgagg     120
ttctcgttct gagggacagg cttgagatcg gctgaagaga gcggggccag gctctgtgag     180
gaggcaagac acagtgggtc gcaggatctg acaagagtcc aggttctcag gggacagggg     240
gagcaagagg tcaagagctg tgggacacca cagagcagca ctgaaggaga agacctgcct     300

```



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gtgggtcccc atcgcccaag tcctgcccac actcccacct gctaccctga tcagagtcac 360
catgcctcga gctccaaagc gtcagcgctg catgcctgaa gaagatcttc aatcccaaag 420
tgagacacag ggcctcgagg gtgcacaggc tcccctggct gtggaggagg atgcttcac 480
atccacttcc accagctcct cttttccatc ctcttttccc tcctcctctt ttctcctcc 540
tcctcctgct atcctctaata accaagcacc ccagaggagg tttctgctga tgatgagaca 600
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cattagatca atctgatgag ggctccagca gccaaaagga agagaagtcc cagcacccca 720
caggtcctgc cagacagtga gtctttaccc agaagtgaga tgatgaaaag gngactggat 780
tnggtgcagt ttctgntntt taagtntcaa atgaanggaa ccgatcncaa anggccgaaa 840
tncttggaag agtgncntna aaaaattatg aagaacnntt tcccttgngg gttaangaaa 900
ccctccaan gcnnngcnnn nggnctttgg gcnttgangn nnaanggnaa gggatccccn 960
ttgggcnnt tcntttggcc ttggnnncc nctnngggcc ctancttnng aagggggaanc 1020
cnmn 1024

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<210> 86

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 86

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gtgatggata tctgcagaat tcgcccttag cgtgggtcgcg gccgaggtac tccaggtagt 120
tttcctgcac ccaatcttgg gtgagcagct tcctgggctc ccataaatg aggtgctcca 180
tcccatcata cagcccccac atattcagtg cttcccagat gacctcctca ggggtgcagt 240
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ggccagtggg atccacttcc tttacatcaa tgccaaagac cagcagcatg cactcggagg 420
cttcactaaa caacaaaggg aagtgggtct cataattttt tatgacactc tccagtattt 480
ctgcctttgt gatcgggtcc ttcatttgat acttgaagag cagaaactgc accaaatcag 540
tcaccttttc atctatctca cttctgggta aagactcact gtctggcagg acctgtaggg 600
tgcttggaact ctctcctttt tggctgctgg agccctcatc agattgatct aatggaaggg 660
aagcaacgac cgaggggggag gagcaggcta tctgagcact ctggggggagg aattgggtgtc 720
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ccna 1024

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<210> 87

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 87

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gttccagcat ctttggttagc ctgacgctga gagtcattaa agtaagctgg cactgtgacc 180
acagcattgg taacagtctt cccaaggtag gcttctgcaa tttccttcat ctttgtcaga 240
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accttggggc tgccagcatc attcaccacc ataaagggcc aatgtttcat atcagactgg 360
acaacagcat catcaaatct gcgtccaatc agacgtttgg catcaaaaac tgtgtcggtg 420

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```

gggttcattg caacttgatt ctttgcggca tcaccgatca accgttcagt gtccgtaaaag 480
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tgctggaaaa caccacacaca agagtaggtg gtgccaagat caataccaac tgcagggtccc 600
ttggacatgg ttgctgggat gtaggcctgg ctccaataac gaaggaagcc aaaaaaccc 660
aagagctgca ggcgaagtcc aatgagacct ccgcgggacc tgcccgggcg gccgctcgaa 720
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anctggcgga antnaccnaa aaggcccgna ccgaacggcc ntttccaaaa gttgcncaan 960
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<210> 88
<211> 1024
<212> DNA
<213> Homo Sapien

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<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

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tcgcctgcag ctcttgggtt tttgtggctt ccttcgttat tggagccagg cctacatccc 180
agcaaccatg tccaaggagc ctgcagttgg tattgatctt ggcaccacct actcttgtgt 240
gggtgttttc cagcacggaa aagtcgagat aattgccaat gatcagggaa accgaaccac 300
tccaagctat gtcgccttta cggacactga acggttgatc ggtgatgccg caaagaatca 360
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tgatgatgct gttgtccagt ctgatatgaa acattggccc tttatgggtg tgaatgatgc 480
tggcaggccc aaggtccaag tagaatacaa gggagagacc aaaagcttct atccagagga 540
ggtgtcttct atggttctga caaagatgaa ggaaattgca gaagcctacc ttgggaagac 600
tgttaccaat gctgtggtca cagtgccagc ttactttaat gactcttcag cgtcaggcta 660
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cgaattncag cacactggcc ggccgntact taatggatcc gaactcggta ccaagccttg 780
cgtaatcatg gnccatactg gttnctgnng tgnaattggt attccggta caattncnca 840
caacattcca anccggaagc cttnagtga aagccctggg tgcccttaag agtgagctta 900
ctnncantta aatgcggtgc gcttnnttgg ccgttttcca tcgggnaaan ctgcngccaa 960
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gttt 1024

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<210> 89
<211> 1024
<212> DNA
<213> Homo Sapien

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<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

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<400> 89
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ttcacagtgc tgtgcaaaac atttctatct tgcaaaaccg aagttctata tccactaaac 180
aactccgcat tttccctctc cccagccctt gccaaactgcc attctacttt ctgtttctct 240
atatttgact acactagaca cctcatacaa gttaaatcag agagtatttg tttttttgtg 300
actggtttct ttaaacttag cataacatcc tcaagatcca tcaatagtct atcatgtatc 360
atgtattact tcttttttaa ggttgaacaa tattccactg tgtgtgtgtg tgtgcacgtg 420
tataccacgt tttgttttag cattcgcca tcaatggaac ttgggttgct tcgacccttt 480
ggctactgta ttacgttgtt ctagcattgc tataaagacc tgagggttgg taatttataa 540

```



agaaaagaag	ttctgcaggc	tatacaagca	tggtgctggc	atctgcctgg	cttctgggga	600
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gtattcatta	ttgcaagaac	agcatcaaac	catgaggcct	cancccgtgg	cccaaacacc	780
ttccaacang	ccccaaactcg	cattaaggat	acctttcnaa	nntaagggtt	gggggggacc	840
aaatntccca	actatatcan	tgnttttgaa	cagggnctcc	agttctttta	aatcccgaag	900
aaatttttaa	aggantccca	acctttttaa	ngaactaaag	gtttcccgna	nnnngaaaag	960
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nttt						1024

&lt;210&gt; 90

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 90

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tataactcag	aaatcagtaa	acaagtcttt	tcccaaagta	agttccttct	aaatgtagct	240
aaaaagagcc	actttgtcat	taaagtgaat	gagtatgcat	ttttagaaca	gacttgatgt	300
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ttctgtaaac	ttttagttct	ttataagggt	tgatgatata	tttaaaaatt	tttctgtatt	480
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tgcatgcct	gctcctgcct	caccttcacc	atgagtnaaa	ggncctgang	cctcccagaa	780
gccangcaga	tgccancanc	attgcttgga	tagcctgcan	aacttctttt	ctttataaaa	840
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aaccaaccca	ggtccattgg	nngggcnaag	gnttaacnaa	acngngnntc	ccntgcncna	960
nnnnccccc	ggggnaaatg	gcaacccttn	aaaanaagnn	tncctgganc	cngnnnnncc	1020
nttt						1024

&lt;210&gt; 91

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 91

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ggacgttgcc	caaaggtagg	aagaaagcag	agggaaatat	ttcagtcatc	atttccaaag	240
tcattatcaa	aatctgtgag	gaagttaat	cttccaaaga	gtcaatgtca	gacatcaggc	300
ctctgttgcc	tgcttctctc	gaggcactag	attaggagtc	ttcaataaga	gacttaacat	360
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gagnagcctt	aaaaaggggg	caangtaang	gttttcnggt	atggaagcca	aaanttttnc	960
cggctnaatg	ggntggntnn	ccaatattnn	taccggcccn	aaanggggnt	tttncnnngg	1020
gtcc						1024

&lt;210&gt; 92

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 92

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aataaatagt	ccccctttcc	ccagtcttaa	caacaaaaaa	caaaaaacca	gcctggagat	480
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ggaa						1024

&lt;210&gt; 93

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 93

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ngcaggccac	aggctanaaa	ctgtagtctc	ccgacattac	aagccaattt	gggnctgtgg	780



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ggnggnccgt	ttnaacctgc	cTTTTaaagg	gcccaattnn	nccctntnna	nnggagcgan	960
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cccc						1024

<210> 94  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien

<220>  
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 <222> (1)...(1024)  
 <223> n = A,T,C or G

<400> 94						
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gatggagggtg	gagggttgat	ttgggaagca	gagcacagca	gcacaaattt	gcttgtaatg	180
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acaaccacaga	agggaaaaagg	gaccctgcaa	ggaagtcca	ggaacaaaag	gctctcccta	420
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caactcgunc	caaannttgn	gnaaacatgg	gnnnanattg	gntcctgggg	ggaaatgtat	960
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gccc						1024

<210> 95  
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<220>  
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cgtctcccca	aagctttatc	tgtcttgact	ttttaaaaaa	gtttgggggc	agattctgaa	180
ttggctaata	gacatgcatt	tttaaaacta	gcaactctta	tttctttcct	ttaaaaatac	240
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atgctttggg	aactgtgttt	attgcctata	atgggtcccc	aaaatgggta	acctagactt	660
cagagagaat	gagcagagag	caaaggagaa	atctggctgc	cttccatttt	cattctgnta	720
tctcaggtga	actggtanan	gggagacatt	ngaaaaaat	gaaacnacca	aaaccattac	780
taatgaggta	ccttnggncc	gggaacacgc	ttaaggcgaa	ttttgcagaa	atncattaca	840
ctggcggnc	gttcagcatg	cttttaaagg	gcccaattnc	cctttaaggg	agtcgnatta	900



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caatttnant gggccgcgtt ttacaacgtn nggaactggn aaaacccctg gggtnnccca 960
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cnaa 1024
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<210> 96
<211> 1024
<212> DNA
<213> Homo Sapien
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<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G
```

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<400> 96
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gttttgttgt ttcatttttt tctaattgtc cccctctacc agctcacctg agataacaga 180
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aggttaccca ttttggggac ccattatagg caataaacac agttcccaaa gcatttggac 300
agtttcttgt tgttttttag aatgggtttc ctttttctta gccttttctt gcaaaaggct 360
cactcagtc cttgcttgct cagtggactg ggctccccag ggcctaggct gccttctttt 420
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caaggattgt cagacttcaa acgtaacagc agaaccacca gaaggctcta taaatgcagt 600
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ttaaaggaaa gaaataagaa ttgctagttt taaaaatgca tgtcttttaa ccaattcaga 720
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tgggcgggcg gtacttaatg gatcccaact cggncccaac cttggggaaa ncatgggcn 900
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```
<210> 97
<211> 1024
<212> DNA
<213> Homo Sapien
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<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G
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tggtgtccaa actggtcaat ccagttgctt aacacagaaa gcggacagat gatcagtgtt 180
gttcttggtc tctcctcaac atcagttttc tttgaccctt cactgcaca agctcccttt 240
ttcaacattt tcttttttgt tgttaggaaca gatgaagtta atgcacatgc aaatgccaca 300
tcttctataa ccttagaaga tcctttcgcc ctgcctttag tttcagactg tacagaggga 360
gagagagaga gaaagagagc acgccagtga gaaagcgagc gcgagcgca ggcgaagggg 420
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tccacggggc tgcattctct gatggtgcac tgaaaaagca gagctcacca gacagagtgg 540
aaaggcaggg ggaggggagc ggagcaacag aagggaagaga caacaagccc aagacagctt 600
ccatctcaga cggaaggccc ccagaagata gaattccagc cgactgaaaa accacccaat 660
gaacaaagaa gattctagaa aatagaagtg ttgggattac aaagttnngc gtttcatcgg 720
tacctgcccg ggcgngcgn tcaangggcg attctgcaga tatccatcac actggcggn 780
gntcgagcat gcatntagan ggcccaantc gncctataag ggagtcgnan tacaattcac 840
ttgggcccgc ttttacaacg tctgacttgg naaaanccct gnggttnccc aacnttaaac 900
ggcnttgag nacaattccc ctttttncca anntggggna antnaccaaa agggccccc 960
accgatggnc ctttttncaa aagttggggc aaccttgaaa gggcaaaagg gccccccct 1020
```



ttaa

1024

<210> 98  
<211> 1024  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1) ... (1024)  
<223> n = A,T,C or G

<400> 98  
gnnngnnnnnnn tttnngaattgg gccctctaga tgcattgctcg agcggcccgcc agtgtgatgg 60  
atatctgcag aattcgccct tgagcggccg cccgggcagg taccgatgaa acgcgcaact 120  
ttgtaatccc aacactttct attttctaga atcttctttg ttcatgggt ggtttttcag 180  
tcggctggaa ttctatcttc tgggggcctt ccgtctgaga tggaagctgt cttgggcttg 240  
ttgtctcttc cttctgttgc tccctgcccc tccccctgcc ttccactct gtctggtgag 300  
ctctgctttt tcagtgcacc atcaagagat gcagccccgt ggacatgaag acacaatctc 360  
ccacggacag ctttccccct tccgccctct cccacctct cctccccctg cgctcgcgct 420  
cgcgctcgct ttctcactgg cgtgctctct ttctctctct ctctccctct gtacagtctg 480  
aaactaaagg cagggcgaaa ggatcttcta aggttataga agatgtggca tttgcatgtg 540  
cattaacttc atctgttctt acaacaaaaa agaaaatgtt gaaaaaggga gcttgtgcag 600  
tggaggggtc aaagaaaact gatgttgagg agagaccaag aacaacactg atcatctgtc 660  
cgctttctgt gttaagcaac tggattgaca gtttgacaa catataaaaa tcagatgtac 720  
ctcggncgcg accacgctta gggcgaattn cagcacactg ggcggccgtt acttaatgga 780  
tccgaactcg naccaagcct tgcgtaaaca tgggcaatac tggnttcctg nggggaaatg 840  
gtaatccggt tacaatttcc ccacaacntt acaancgga agcccttaag ngtaaaaccc 900  
ctgggngccc caaagagtga gctaacttnc catttaaatg cgttngctca atggcccggt 960  
ttccatcggg naaaacctgn ngccantgga ttaangaatc ggncaaanc cccggggnaa 1020  
aaan 1024

<210> 99  
<211> 1024  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1) ... (1024)  
<223> n = A,T,C or G

<400> 99  
aacgccagct tggtagcgag ctccgatccc tagtaacggc cgccagtgtg ctggaattcg 60  
ccctttcgag cggccgcccg ggcaggtaca gataaatccg tgcatgcatt gagggagact 120  
agagggtaaa atgaaatctg ccccatcctt cttacataga cagtgatagc attttgaatt 180  
gttcttctac atttgaaatc ttagctgaaa gatcatcagc caccgacctt ttgtgaagct 240  
agttctctag aacatacaat gttttttaaa aaattaaaaa cacagaagga aaaaagcaag 300  
aaccaacgat aaatggagct tgtgcagaat ctggcagtg cgtggacctg cccatctgtt 360  
ctcccccgcg tactgactga acacactccc cgctttggtt cctgtaggac gggtagata 420  
ccacaccttg gcaaccacca gtaaaggctc atagtctagc ccttgggagg ccccgatatt 480  
agggctgtgc tcggaggcga cctacgttag ggactgggag aagcgggtac ctccggccgcg 540  
accacgctaa gggcgaattc tgcagatata catcacactg gcggccgctc gagcatgcat 600  
ctagagggcc caattcgccc tatagttagt cgtattacaa ttcaactggc ccgtcgtttt 660  
acaacgtcgt gactgggaaa accctgccgt taccgaactt aatcgccctg cagcacatcc 720  
ccctttcgcc agctgcgtaa taacgaaaag ccgnaaccga tcgccctttc cacagttgcg 780  
caacctgaat ggcnaatgga ccccccttg taccggcgca ttaaccnccn gccggnntnt 840  
ggggtagccc cacgtggacc gggttcaattg gccagggcc taangnccgg ttcntttggt 900  
ttcttncctt ccntttttng cccgttngcc nggtttttcc cgtaagcttt taaanngggg 960  
gcttccccctt ttanggggtc aaataangct ttacgggncc ttaaccccc aaaaaaattt 1020  
nnnt 1024



<210> 100  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 100  
gggnnnnnnnn tttnngttcng aattggggccc tctagatgca tgctcgagcg gccgccagtg 60  
tgatggatat ctgcagaatt cgcccttagc gtggtcgcgg ccgaggtacc cgcttctccc 120  
agtcctaacc gtaggtcgcc tccgagcaca gccctaaaat cggggcctcc caagggctag 180  
actatgagcc tttactgggtg gttgccaagg tgtggtatct caccgcctct acaggaacca 240  
aagcggggag tgtgttcagt cagtacgcgg gggagaacag atgggcaggt ccacagcact 300  
gccagattct gcacaagctc catttatcgt tggttcttgc ttttttcctt ctgtgttttt 360  
aatttttttaa aaaacattgt atgtttctaga gaactagctt cacaaaagggt cgggtggctga 420  
tgatctttca gctaagattt caaatgtaga agaacaattc aaaatgctat cactgtgtat 480  
gtaagaagga tggggcagat ttcatTTTTac cctctagtct ccctcaatgc atgcacggat 540  
ttatctgtac ctgcccgggc ggccgctcga aagggcgaat tccagcacac tggcggccgt 600  
tactagtga tccgagctcg gtaccaagct tggcgtaatc atggtcatag ctgnttctctg 660  
tgtgaaattg ntatccgctc acaattccac acaacatacg agcccggaag ccataaagtg 720  
tnaaagccct ggggtgcctn atgagtgagc taactcacat ttaattgcgt tgcgctcact 780  
ggcccgnttt cagtcgggaa aactgcntgc cactgcttaa tgaatcggcc acgccccggg 840  
gaaaaagcgn ttgcgtantg ggcgctnttc cgctttcttg gttaactgac tcnttgggct 900  
ttggccttng gnttnnggnn aacgggttna acttncnttn aaangggggn naatccggtn 960  
tncccgaata nncggggata acccccgga anaactttgn ccnaaaggcc cccnaaangg 1020  
cccn 1024

<210> 101  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 101  
gggnnnnnnt tgaatnacac gccagcttgg taccgagctc ggatccctag taacggccgc 60  
cagtgtgctg gaattcgccc tttagcgtgggt cgcggccgag gtacgcgggt attttcttaa 120  
atttcttgaa tgttctttat ggtagtggtta ctaaaaagtt tatgatcaca ttttcattgt 180  
gaacataatt tgaactcatt atcacacact tggaaaatac agaaaagtgg aggaaaaaaa 240  
atcatatccc caccatccaa agacatatac tctcctctta tcttgttcat tcttgtttct 300  
gtgcacaggt ttatgattat aactgtgtca aaatgtatat tcaaaatagc tgttacatta 360  
cctttgtgga attatgggta aatactttca ctttaatttt ttcaaagtgt ccctataata 420  
atgttctgat aacagtgtat tatgtgtgtc tccattgggtg tgcataatac ataccagag 480  
gaaaaattag aaaataaagt aaattatttt aaaaaattac ctatattccc aacacctaac 540  
aactactgct aacatcttga tctgtttcct ctatcttggt tcagtgcaca cgcttgatgat 600  
aacagtgtta aatatgtgtg cataaagtct taaatgaaaa gatgtggaaa ataactaaaa 660  
tagtggtgtc attgtgggaa tttgggttaa tattttgtct caaattcctt aaataatctt 720  
tggtgttttt gtaataaatt ttaatgatgt attttccatt acaaatataa tacataactca 780  
tacaaaactt tggaaaatta gtaagaaaaa ttcacacata tccccacacc caacaccaat 840  
ttaactggtn agcatctgga ctgngcncta agctgggatt antttaggng tagtggataa 900  
gtatgcctaa aggccaaaaa tgggaagaag gatgaaaanc cngaaaatan ttncctgggt 960  
gtnnngggaa taaggggat ttgggttcgg ttcctttgaa agggcatnnn tttcaagggg 1020  
tttg 1024

<210> 102  
<211> 1020



<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1020)  
<223> n = A,T,C or G

<400> 102

ggagnnntt	aaacgccagc	ttggtaccga	gctcggatcc	ctagtaacgg	ccgccagtgt	60
gctggaattc	gcccttttca	gcggccgccc	gggcaggtag	tctttctctc	ccctcctctg	120
aatttaattc	tttcaacttg	caatttgcaa	ggattacaca	tttcaacttg	atgtatatgt	180
tggtgcaaaa	aaaaaagtgt	ctttgtttta	aattacttgg	tttgtgaatc	catcttgctt	240
tttccccatt	ggaactagtc	attaacccat	ctctgaactg	gtagaaaaac	atctgaagag	300
ctagtctatc	agcatctgac	aggtgaattg	gatgggttctc	agaaccattt	cacccagaca	360
gcctgtttct	atcctgttta	ataaattagt	ttgggttctc	tacatgcata	acaaaccctg	420
ctccaatctg	tcacataaaa	gtctgtgact	tgaagtttag	tcagcacccc	caccaaactt	480
tatttttcta	tggttttttt	gcaacatatg	agtgttttga	aaataaagta	cctcggccgc	540
gaccacgcta	agggcggaat	ctgcagatat	ccatcacact	ggcgcccgct	cgagcatgca	600
tctagagggc	ccaattcgcc	ctatagttag	tcgtattaca	attcactgcc	cgctgtttta	660
caacgtcgtg	actgggaaaa	ccctgcgtta	cccaacttaa	tcgccttgca	gcacatcccc	720
ctttcgccag	ctggcgtaat	aacgaaaagc	cccggaaccga	tcgccttttc	caacaggtgc	780
gcaacctgaa	tggcgaaatg	gacccccctt	ggaaccggcg	cantaaaccc	ccgncggggn	840
nntngggtag	ccccacggg	ganccgttca	cttggccann	gccctaangn	ccggttcctt	900
tnggtttctt	tccttccttt	ttgcccgttt	gnccgggttt	tcccggnaag	ctttaaaaaac	960
gggggcctcc	cccttttang	gtccnaataa	nggcttttac	gggnccttng	aaccccaaan	1020

<210> 103  
<211> 1021  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1021)  
<223> n = A,T,C or G

<400> 103

ggagnnnttn	ngnngggccc	tctagatgca	tgctcgagcg	gccgccagtg	tgatggatat	60
ctgcagaatt	cgcccttagc	gtggtcgcg	ccgaggtact	ttattttcaa	aacactcata	120
tggtgcaaaa	aacacataga	aaaataaagt	ttggtggggg	tgctgactaa	acttcaagtc	180
acagactttt	atgtgacaga	ttggagcagg	gtttgttatg	catgtagaga	acccaaacta	240
atattattaaa	caggatagaa	acaggctgtc	tggttgaaat	ggttctgaga	accatccaat	300
tcacctgtca	gatgctgata	gactagctct	tcagatgttt	ttctaccagt	tcagagatgg	360
gttaatgact	agttccaatg	gggaaaaagc	aagatggatt	cacaaaccaa	gtaattttta	420
acaaagacac	tttttttttt	gcaacacaa	atacatcaca	gtgaaatgtg	taatccttgc	480
aaattgcaag	ttgaaagaat	taaattcaga	ggaggggaga	gaaagagtag	ctgcccgggc	540
ggccgctcga	aagggcgaat	tccagcacac	tgccggccgt	tactagtggg	tccgagctcg	600
gtaccaagct	tggcgtaatc	atgggtcatag	ctgnttcctg	tgtgaaattg	gtatccgctc	660
acaattccac	acaacatacg	agcccgggaag	cataaagtgt	aaagccctgg	ggtgcctaata	720
gagtgagcta	actcacatta	aatgcgttgc	gtcactggc	cgctttncag	tccgggaaac	780
ctgtcgtgcc	agctgcatta	atgaatccgg	ncaacgcccc	ggggaaaaag	cggttgcgta	840
ttgggcgctc	ttncgctttc	ttggttactg	gctccttgng	cctcggccgt	tccggnntcg	900
gnnaaccggg	atcagcttac	ttcaaangcg	gnaaatccgg	tttnccngga	aatccggggg	960
ttaacnccag	gaaaanaacc	tttgaaccna	aaggggcccn	aaaaggggcc	ggaaccctaa	1020
a						1021

<210> 104  
<211> 1017  
<212> DNA  
<213> Homo Sapien



<220>  
<221> misc\_feature  
<222> (1)...(1017)  
<223> n = A,T,C or G

<400> 104  
ggagnnnntta atcnacgcen gcttggtacc gagctcggat ccctagtaac ggccgccagt 60  
gtgctggaat tcgcccttag cgtggtcgcg gccgaggtac tcagctgtct taataggatg 120  
aagccttaag cagtggaaat ttcagttatt ttccacagta ttccattttg gaggatttg 180  
ggtgtttact ttttaaattc ttgaacaact taacctccat gaggctttgt gaagtcagct 240  
gtgaccaccc tcctcttact gtgttctcag tattcattca cttccagggg agaattgacag 300  
ccacagggag atggtggtgg gcaagaatga gagtcccagg atccagattt agcctcagat 360  
cttccccatt caggaagggt tttccattta acaagagcac tagtatgaaa acattaggga 420  
caaattctcc atgtctttga aattcggatt ctctcttga gatccccctc ctcacctgcc 480  
aatcaacttt ataaggccac aagtggtcac tggttttcct tccacagggt tgaggttctc 540  
agcttttcct aagcgaccga gcagctccgc tgttttcaga gtgaatatgt taagctttga 600  
tgagattcta ttttcagtaa gttagtgtt ctgggacact tggagaaagc tgtgagagtc 660  
attggctacg caaagaacaa cgaaagctga tcctaaaagt gatccaatct aagaaaatgg 720  
taaaacgagc tctggccaca gcacagaatt ttatgtgang aactcagatt tttgaagact 780  
taacaattgc agaaaaaggn tgcagcctgn acacccatag cccaactttt ntgagccana 840  
ctttgggttt tggnggggga cntggcacca tgtttgnacc tggccggccg gnccgttcna 900  
aagggccaaa ttntggcnga aatnccttac actggggggc cgtttgagca tgcctntaaa 960  
ngggcccaan tngnccctta aaggggggcn nnttccaatt nnetgggccc ggttttn 1017

<210> 105  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 105  
ggagnnnntt nnntnnngan tgggccctct agatgcatgc tcgagcggcc gccagtgtga 60  
tggatatctg cagaattcgc cctttcgagc ggccgcccgg caggtacaaa catgtgccac 120  
gtcaccacac aaaaccacaa tctgctcaga gaggtgggct atggtgtgca ggctgcaacc 180  
tttctctgca attgttaagt cttcaaaaat ctgagttcct cacataaaat tctgtgctgt 240  
ggccagagct cgttttacca ttttcttaga ttggatcact tttaggatca gcttcgttgt 300  
tctttgcgta gacaatgact ctcacagctt tctccaagt tcccagaagc actaacttac 360  
tgaaaataga atctcatcaa agcttaacat attcactctg aaaacagcgg agctgctggg 420  
tcgcttaagg aaagctgaga acctcaaacc tgtggaagga aaaccagtga ccacttgtgg 480  
ccttataaag ttgattggca ggtgaggaag gggatctcaa gaggagaatc cgaatttcaa 540  
agacatggga gatttgtccc taatgttttc atactagtgc tcttgttaaa tggaaaaccc 600  
ttcctgaatg gggaagatct gaggtctaat ctggatcctg ggactctcat tcttgcccac 660  
caccatctcc ctgtggctgt cattcttccc ctgaagtga tgaatactga gaacacagta 720  
aggaaggagg gtggtcacia gctgacttca caaagcccta atgganggtt aagttggtca 780  
agaatttnaa aagtaacccc cccaaatcct ccaaaaatgg gaatactggt ggaaaataac 840  
ctggaaattn ccctggttta aggcttcatt ctattaagac cgcttgagta cccttggccg 900  
ngaaccccct taagggcgaa ntncacaca ctggngggc cggtacctaa nggatcccaa 960  
ctnggnaccc aancnttggg gaaancatng ggccataact gggttcccgg ggggaaatgg 1020  
taat 1024

<210> 106  
<211> 1007  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1007)



<223> n = A, T, C or G

<400> 106

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ggagnnnntt aaacgccagc ttggtaccga gctcggatcc ctagtaacgg ccgccagtgt      60
gctggaattc gcccttagcg tggtcgcggc cgaggtaacac agaatagctg agcagttcac      120
ttcaggggac aggtcatctc tgctcctcct agtttcacca tggtctggca ataaaaaaca      180
catattatat cctgggttttc tctatccttg cattactaag gtgactgtct ctctttatac      240
atccttgtat ggttctccca gtattagcaa gattgtatat ctgtaaagaa tgtccagttt      300
tgtaaatatt tccctgcctt tttttttctt tttttacatc tgattttaat gcttcgttaa      360
cttcaaaagg aactggtaga gttcagaagg tgagctgttg tttttctaaa cctcttccca      420
ggaaggggac attgacactt gaatttttgt cacctttttc ctcattagaa ggaaagtaga      480
aagccttact gtaggatttt taaaaaaaaa tccatctcac cccatattgg tcttaaataa      540
gtatagacta attaacctaa gctaccttta acaacgtaga atttaanatg ggttcataata      600
tgtgagaaaa acctgaatat aggacagggg tctacttttt tccccacact ctgtcgccca      660
ggctagagta ntaantgggt gatcttggcc cactgcaacc tctgcttcta gggtaagtg      720
attctcctgc tcagcctncc aagtancccg ggaattggaa gagtatgcc aacgcgccag      780
ctactttttg gaattttagt nnaaaacagg ttcatcatgn tggncncnga agggcnctta      840
antcctgncc tttagngatc ccccnnnana ngaaaccntg gncnncccaa nnnncngggn      900
tntagcnnnn ccnccgngcc canncacttt tnnnaannnn nnnnnnnnnn nnnnnnnnnn      960
nnnnnnnnaa nnnngnnnnn nccngnnngn cennnnnnng gnaantc      1007

```

<210> 107

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1) ... (1024)

<223> n = A, T, C or G

<400> 107

```

gnagnnnnnn nngattgggc cctctagatg catgctcgag cggccgccag tgtgatggat      60
atctgcagaa ttgcacctta gcggccgccc gggcaggtag tttttttttt tttttttttt      120
tttttttttt aattaattag aaagtaggct gggcacggng gctcatgcct ataattcccag      180
cacttgggga ggccgaggat ctctctcttg gnggatcact tgagggcagg agttaagaga      240
ccatcctggc caacatgatg aaaccctgtc tctactaaaa atacaaaaag tagctgggag      300
tggtggcata ctcttacaat cccggctact tgggaggctg aggcaggana atcacttgaa      360
cctaggaagc agaggttgca gtgggccaag atcacaccac tatactctag cctgggcgac      420
agaggtgggg aaaaaagtag gaccctgtc ctatattcag gtttttctca catatatgaa      480
cccatctaaa ttctacgttg ttaaaggtag cttaggttaa ttagtctata cttatttaag      540
accaatatgg ggtganatgg attttttttt aaaaatccta cagtaaggct ttctactttc      600
cttctaataa ggaaaaaggt gacaaaaatt caagtgtcaa tgcccttcc ttggggaaga      660
ggtttagaaa aacaacagct caccttntga acttttacca gttecttttt gagttaaccg      720
aagcnttaaa aatcagatgt aaaaaangaa aaaaaaaggc cgggaaattt ttaccaaaact      780
nggacattct ttacagatat acaatcttgc taaaacctgg gaaaacctt cccnggggtg      840
ttaaagggga aacagtcccc cttataatgc ccgggggttna gaaaancccg gatttttnnaa      900
aaaggggttt tattgcccc aactggggga accttngggg ggncccaaaa nnaacctgan      960
cccctgaagg naccgggttn annnntttt tgggaccttg gccgggaacc ccctttnggg      1020
ggna      1024

```

<210> 108

<211> 470

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1) ... (470)

<223> n = A, T, C or G

<400> 108



actatgacca	tgattacgcc	aagcttggtg	ccgagctcgg	atccactagt	aacggccgccc	60
agtgtgctgg	aattcgccct	ttcgagcggc	cgcccgggca	gggtactattt	tttttttttt	120
ttttcgtgtn	tttgacattc	cttgaatctg	ttttttattc	cccttcacaca	gaacaggccct	180
gggacttttc	aacaccctgc	taaggaagtt	ctgtgtccaa	gtcccaccca	ggctgggttg	240
tccccacctn	ctncagccca	cacagcccag	gcagcatccg	ggccagtgcc	ctgcatgaca	300
nagggctctt	gttgtgtaat	gnttggtccc	aagttgcatt	ttctaaccga	atcagtgtgt	360
tttcatgaaa	ctgagtgtta	ctgtggacca	gtaagtttct	ctgttgtctt	cagtggctct	420
cctgtgtggc	tcaagggttc	tctgtgagag	tctggatttt	catttctggg		470

&lt;210&gt; 109

&lt;211&gt; 808

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(808)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 109

gggcctctag	angcatgctc	gacggccgccc	atgtgatgga	tatctgcaga	attcgccctt	60
agcgtggctg	cggccgaggt	acaagtctgc	ctaagagaca	gaagtgagtn	ttataatcta	120
cttggccatt	cctcccagca	gagaagcagc	aggtagatat	ggcatgcact	gtgcctgctg	180
ctgctgtctt	tgtggcgaac	actcagatgt	ggaaccatag	aggaccttg	aggagctggg	240
acatgattct	ttagagaaga	gaagagacgg	ggagcacagc	atgagaatgg	ccagtcaacc	300
catttcaa	ttcttttatta	aagtgccttc	cgaggggctt	tgacaaaaga	tgatggggag	360
agcagaactg	ctgctccttg	acagaactct	gatccttaca	ctttgttttg	agtgggcttg	420
gggacagtca	caagccatga	aacatgaatc	caaaatgggtc	cccagatgag	ccatgggtgaa	480
ccaacagatg	caagcaactt	cttaaaactgc	tctattaaac	actgctttat	atgtgtcccc	540
atgatacaga	aaagtgggat	ggggccagcc	attccagaaa	tgaaaatcca	gactctcaca	600
gagaaccctt	gagccacaca	ggaagaccac	tgaagacaac	agaggaacta	ctggtccaca	660
gaaacactca	gtttcatgaa	aacacactga	ttcgggtaga	aaatgcaact	tggaacaaaa	720
cattacacaa	caaagaccct	ctgtcatgca	gggcactggc	ccgatgtctg	ctgggctgtg	780
tgggctggaa	gangtgggga	caaccac				808

&lt;210&gt; 110

&lt;211&gt; 471

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(471)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 110

actatgacca	tgattacgcc	aagcttggtg	ccgagctcgg	atccactagt	aacggcccgcc	60
cagtgtgctg	gaattcgccc	tttcgagcgg	ccgcccgggc	aggtacagcg	acgtgatgat	120
gtagaggcgc	ttcccatcca	ggctgagctg	gatcatctga	gggcctncag	ccaccgcttt	180
tcccttgacc	actaggggct	ctggctggga	cttttagttcc	tcgtcctcca	gcacttgccac	240
agggcctccc	ttacaatgc	tgctcctcag	gaagagctgt	cctgtgaggc	gggtctctctg	300
tgggtcagag	atgtcatact	gcctcaggct	cccagtcagc	cagttgctga	agtagaggaa	360
gcggtcgtcc	aggagagca	ggatgtcggt	gatcaggcct	ggcatttcgg	gcagcagcca	420
gcccttcact	ttcttggggg	gcacctggat	caccttctcc	actgaccatg	t	471

&lt;210&gt; 111

&lt;211&gt; 468

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature



<222> (1)...(468)

<223> n = A,T,C or G

<400> 111

actatgacca	tgattacgcc	aagcttggtg	ccgagctcgg	atccctagta	acggcccgcca	60
gtgtgctgga	attcgccctt	agcgtggctg	cggccgaggt	acttnnttnc	ttnttttaca	120
tctgatttta	atgcttcggt	aacttcaaaa	ggaactggta	gagttcanaa	ggtgagctgt	180
tgttttntcta	aacctnttcc	caggaagggg	acattgacac	ttgaattttt	gtcacctttt	240
tcctcattag	aaggaaagta	naaagcctta	ctgtaggatt	tttaaaaaaa	aatccatctc	300
accccatatt	ggtcttaaat	aagtatagac	taattaacct	aagctacctt	taacaacgta	360
gaatttagat	gggttcatat	atgtgagaaa	agcctgaata	tangacaggg	gtcctacttt	420
tttccccacc	tctgtcgccc	aggctggagt	atagtgggtg	gatcttng		468

<210> 112

<211> 813

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(813)

<223> n = A,T,C or G

<400> 112

attgggcctc	tnnagcatgc	tcgacggccg	ccatgtgatg	gatatctgca	gaattcgccc	60
tttcgagcgg	cgcgccgggc	aggtaccatg	ctgacttctt	ggtatctttt	anggcctaata	120
tttcccttcc	ttgagattac	tgtagtgtgt	tccagctaata	ttctatttgg	aaacgagttg	180
gaacagctga	aaactaggtg	ttattgaagg	caaagcagcc	tcacgtcagt	tttttatcag	240
ctcatttggg	aagtttttnt	ttttttntn	ttaattaatt	agaaagtagg	ctgggcacgg	300
nggctcatgc	ctataatccc	agcacttggg	gaggccgagg	atctcctctc	tggtggatca	360
cttgaggggca	ggagttaaga	gaccatcctg	gccaacatga	tgaaaccctg	tctctactaa	420
aaatacaaaa	agtagctggg	cgtggtggca	tactcttaca	atcccagcta	cttggggaggc	480
tgaggcagga	gaatcacttg	aaccacaggaa	gcagaggttg	cagtgggcca	agatcacacc	540
actatactcc	agcctgggcg	acagaggtgg	ggaaaaaagt	nagacccttg	tcctatatcc	600
aggctttgct	cacatatatg	aaccatctta	aattctacgt	tggttaaagg	agcttagggt	660
aattagncta	tacttatatta	agaccaatat	ggggtganat	ggattttttt	ttaaaaatnc	720
tacagtaagg	ctttctactt	tccttctaata	gaggaaaang	gtgacaaaaa	ttcaagtgtc	780
natgcccctt	cctgggggaag	aggttttaaaa	aat			813

<210> 113

<211> 506

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(506)

<223> n = A,T,C or G

<400> 113

nccaacttgg	taccganctc	ggatccctag	taacggcana	cattganctg	atagccaag	60
cttggtaccg	agctcggatc	cactagtaac	ggncgccagt	gtgctggaat	tcgcccttcg	120
agcggccgccc	cgggcaggta	cgcggggcct	ctggcgctac	catggcgttt	ggcaagagtc	180
accgggatcc	ctacgcgacc	tccgtggggc	acctcataga	aaaggctaca	tttgctggag	240
ttcagactga	agattggggc	cagttcatgc	acatctgtga	cataattaac	actaccagg	300
atggggccaaa	agatgcagtg	aaagctttga	agaaaangat	ttncaaaaac	tacaatcata	360
aagaaatcca	acttaccttg	tcacttattg	acatgtgtgt	gcagaactgt	ggtccaagtt	420
tccagtctct	gattgtgaag	aaggaatttg	ttaaagagaa	tttagttaag	ctactgaatc	480
ccagatacaa	cttgccatta	gacatt				506

<210> 114

<211> 813



<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(813)  
<223> n = A,T,C or G

```

<400> 114
gggccentnn agctgctcga gcggccgcca gtgtgatgga tatctgcaga attcgccctt      60
agcgtgggtcg cggccgaggt acaacttatt ctaaatattt tcattttctg tgttctaaat      120
agaaatatta agttgcagta aaaagagaaa aaaaggctat ttagcattac aaagaatcat      180
atttaaaggc tgcccaatgt agagtctagt gacctgttca ggacacctga aatataatta      240
aatgacaatt atcaagggtt taacaattta taattctaaa ccagaggatt ataaagaagt      300
gcaaattgac ttttacattc aacttttagtt aaatgaaggc actcagtatt ctctctgaat      360
aatacattca gtttctcaca ttttatgctt tcacttattc agaattattt catagtaaaa      420
taatctactc ttatcacagc tgtgtgacga tttctaaatg taggaaggcc tgtgaaacat      480
gacactgcag tttaaattggt tggcctaagg actaagtaat ttttcttctg ctgaagtttt      540
aagtgagtat ttgttccaaa caagttctgt tgaaatctca cgctgtgtgc aggaatcagt      600
gttatcctgg aactgttatt ctattttaatc ttcattatag cagaaatgtg ccaccatggc      660
tttgacatgt tggtaggtat tgtcttcag gcttcaaagc tgcacagagt ctacgtttta      720
gagagttggc acctttgatg tggtagtgag ctgatcatnc actttcttct cagtcaccat      780
cattttgagc tcctttgtgc tggtagcat can                                     813

```

<210> 115  
<211> 471  
<212> DNA  
<213> Homo Sapien

```

<400> 115
accagctatg acctgattac gccaaagcttg gtaccgagct cggatccact agtaacggcc      60
gccagtgtgc tggaattcgc ccttagcgtg gtcgcggccg aggtaccatg attttgtgtt      120
caggaaacaa agaacatgaa atattacatt cttcagaatg ttttcttctg gccattaaat      180
gaatcaagta aatgaggcaa tgaggcacaa ataaggaatt tagatttcag caatattttg      240
atccactgta gctttcagtt tctgaaactt tggaagggcc tacatacttt gtaagaattt      300
ttggcttata ttgttaataa tcaacagagc caagaaaaca tttcttagaa tgttcaaaga      360
caccacctta gccttccttc cctgcagcta taacattatt tttctaagag aaaaggcaga      420
gagtcttcac aaagccatac cagacttaaa attaccagag aacattttgg t                                     471

```

<210> 116  
<211> 818  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(818)  
<223> n = A,T,C or G

```

<400> 116
ttncannngg ccctagagc atgctcgacg gccgccatgt gatggatatc tgcagaattc      60
gccctttcga gcgccgccc gggcaggtag tttttttttt tttttttttt tttttttgtg      120
tgtggtcttg aactcctggc ctcaaagtat cttcctgcct cagcctccca aagtcctggg      180
attactggca tgagtcacca cacctggctc attctttttc ttaatatggc tctaaatggc      240
tttttatttt ttttgccttg gcaatttatt tctaggaaat taaataattc tttcattata      300
atcaagggaa tgaaagactt caggagggtc atagtggagt tcaaaaccat atggagtcca      360
ctattctaca agattataca ggcaataata taagtattct aagggtgttt aggtagattt      420
atagatgtta gatttcaaaa tgggttaata agtgtttatg aatttccaag gtgtatcact      480
aactttctca gatgaaatca tatatagaaa ctatcaaaat tttccttgtt ctgctgtcaa      540
gaaatgaata atatacactg atataactgt aactcacatc taaagggata gtgcttgaat      600
aagctaattt acaatgagtt caagggtatta tttttaaatt cttattgnoc ttagacaata      660
attatgccaa caaatgtgaa aaatatataa tctccttctg ntaatttttc cagttttatt      720

```



acccaaaagt cacacaggta atgcaagtca tgaaataaat caaatgagcc cttcctggag 780  
agcctacttt atttaccttg ggaaaatgga tgacatnt 818

<210> 117  
<211> 467  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(467)  
<223> n = A,T,C or G

<400> 117  
accactatga cctgattacg ccaagcttgg taccgagctc ggatccacta gtaacggccg 60  
ccagtgtgct ggaattcgcc ctttcgagcg gccgcccggg caggtactac tggttttctc 120  
cctggcttca cgtgtctctg tgttccccta tgctgggggtg tcctcccagt gctttcaggc 180  
ttcatctcct tcctaacctc tcctttctat tttttttttt ttttttgaga tggagtcttg 240  
ctcagtcgcc cangtcggag tgctaacctc tcctttcatg tggagatgga cagggatggc 300  
aggagcactg agtgctcttg acaacaccat tgaagatgat gctgacgatc agctaccctg 360  
tggaagaaggc aggccaggct gggtagaggg ggagctcctt ggaagtcagg gggctctgtaa 420  
ggacagcaag gatctctttg tcccaacctc cagcagcctt tatgggt 467

<210> 118  
<211> 815  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(815)  
<223> n = A,T,C or G

<400> 118  
gggcctctna agcatgctcg acggccgccca tgtgatggat atctgcagaa ttcgccctta 60  
gcgtggctcg gcccgaggta cctgggggtct caggggttgc ctgggcctga tcattccactc 120  
agatctgtaa ggaggatttg caggatccat ttagaaagat cctcccttac ttccacaagc 180  
atggcctttg gctcttaaat acctgtgctg gggttttgta attatagaaa caacaggaac 240  
caaaactcat taatgttgag ctacaaacca gagggaagct tctttctcaa aacagggctc 300  
aggcctagaa aaatctagtt ttctgaaatc gctagccagc aacagcactg agatggccat 360  
cccagaaaca agccaacac agaagcacc ataaaggctg ctggagggtg ggacaaagag 420  
atccttgctg tccttacaga cccctgact tccaaggagc tccctctca cccagcctgg 480  
cctgccttct ccacagggtg gctgatcgct agcatcatct tcaatgggtg tgtcaagagc 540  
actcagtgc cctgccatcc ctgtccatct ccacatgaaa ggagagggtta gactccagc 600  
ctgggcgact gagcaagact ccattctcaa aaaaaaaaaa aaaatagaaa ggagagggtta 660  
ggaaggagat gaagcctgaa agcactggga ggacacccca gcatagggga acacagagac 720  
acgtgaagcc agggagaaaa ccagtagtac ctgcccggcg gccgntcgaa agggcgaatt 780  
ccagcacact ggcggggcgt tactagtgga tccct 815

<210> 119  
<211> 811  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(811)  
<223> n = A,T,C or G

<400> 119  
gggcctctnn agctgctcga cggccgccat gtgatggata tctgcagaat tcgcccttag 60  
cgtggctcgc gccgagggtac tctatttttt gcttgatgta ttgatgggtc tttcattatc 120



tgtgattgac	attctatgag	taggtgcttt	tgctttgcct	ataagtcggt	attatgaagg	180
aggaatggtg	aataagaagg	taatttagaa	aagcctatat	taaatatacc	atgaacattg	240
aatatagcaa	gatcttattc	tctagttggt	atcttagttg	ataaattctg	tatgtgttat	300
gtgttttgtg	atacatatgt	acttaatctg	atcggtatct	aaaagaagga	aaggatgggtc	360
aggaaacatt	tatcataaat	gtagccaagg	atatcaatta	gggtagacaa	gaataggaca	420
aaaataggcc	agagctcctg	aggaggtgat	atgggtccct	tgatttgcag	aaaatgacag	480
cctatccaag	tggcccagtg	tatgcctccc	agtagcagtg	ggcatgtaaa	ctgcagcgac	540
cttatttttt	aaacccaaaa	cctagtattg	ggacaaaaga	catgacaata	tttgggtacct	600
gcccgggccc	ccgctcgaaa	ggcggaattc	cagcacactg	gcggccgtta	ctagtggatc	660
cgagctcggt	ccaagcttgg	cgtaatcatg	gtcatagctg	gttcctgtgt	gaaattggta	720
tcccgctcac	aattncaca	cacatacgaa	cccggaagca	ttaaagtgtg	aaagcctggg	780
gtgcctaata	aagttagcta	ctcacattaa	a			811

&lt;210&gt; 120

&lt;211&gt; 466

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (466)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 120

anttgcctg	attacgcaa	gcttggtagc	gagctcggat	ccactagtaa	cggccgccag	60
tgtgctggaa	ttcgcccttt	cgagcggccg	cccgggcagg	taccacggtt	ttgctccaca	120
ctccttgacc	acaggggctc	ggacacaaac	ccctgtcacc	aggagagtca	gtcagcacta	180
cttggggagg	ctaaaggga	atttggaat	aaaattccaa	agtttggagt	aaaaaaattc	240
aagtgttgat	tttatattct	ttccctttct	gacacagcct	aaagcgtagg	gggaacatgt	300
gtttatctgt	gggagataaa	caagatggag	tcccaaagac	tttaacaaaa	tattttttta	360
aaaatccact	agaatagaaa	atacattatt	tagatatact	ttatgctgag	agttagtata	420
tatgcttgct	ctattttaaac	ttgtgagaaa	aagtggtagc	ccttng		466

&lt;210&gt; 121

&lt;211&gt; 812

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (812)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 121

ttggggccnt	nnagcatgct	cgagcggccg	ccagtgtgat	ggatatctgc	agaattcgcc	60
cttagcgtgg	tcgcgccga	ggtacaactc	tccagggcac	aatacgttta	cagctgcctt	120
tccttcacat	actttttctaa	ttcagaacta	ctcacaattc	taagcaaatt	cccattcacg	180
aagtctgtcc	ataatgcgac	cttctctttt	tttaacatat	acatcttaaa	aaacaaatat	240
ataaaaaatt	cttatttttgc	tggaaatgctt	tcaatttttc	acattttaca	tgatcatcac	300
atttattttct	tatatggaaa	ggcatgggtt	ctgttgacat	gtcgtgcaaa	gccaaaaaaa	360
aaaaaaaaaa	aaagggctgg	attgcttttc	aattggtcta	acacttttcc	ttgtctaggc	420
tttggatttt	aaagttcatg	acagccccac	caccagtaga	aaccccaagg	cttgcatttc	480
ctggtaaatcg	actggaaacg	tcccctgttg	gccatgctaa	gattccttca	acagggtcac	540
cctgcatttta	ttctccttct	gccccacccc	cacaatgaaa	caagatagcc	cccatatttc	600
taaatgtatc	aagggatacc	actttttctc	acaagtttaa	ataggacaag	catatatact	660
cactctcagc	ataaagtata	tctaaataat	gtattttcta	ttctagnnga	tttttaaaaa	720
aatatatttg	taaagtcttt	ggggactcca	tcttggttat	cttccacaga	taaaccatgt	780
tccccctacg	ctttaggctg	tggtcagaaa	gg			812

&lt;210&gt; 122

&lt;211&gt; 467

&lt;212&gt; DNA



<213> Homo Sapien

<400> 122

actatgacca	tgattacgcc	aagcttggtg	ccgagctcgg	atccactagt	aacggccgcc	60
agtgtgctgg	aattcgccct	tagcgtggtc	gcggccgagg	taccatgctg	acttcttggt	120
atcttttaag	gcctaatttt	cccttccttg	agattactgt	agtgtgttcc	agctaatttc	180
tatttgga	cgagttggaa	cagctgaaaa	ctaggtatta	ttgaaggcaa	agcagcctca	240
cgtcagtttt	ttatcagctc	atttggaag	tttttttttt	tttttttttt	ttttaattaa	300
ttagaaagta	ggctgggcac	ggtggctcat	gcctataatc	ccagcacttg	gggaggccga	360
ggatctcctc	tctggtggat	cacttgaggg	caggagttaa	gagaccatcc	tggccaacat	420
gatgaaaccc	tgtctctact	aaaaatacaa	aaagtagctg	ggcgtgg		467

<210> 123

<211> 864

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1) ... (864)

<223> n = A,T,C or G

<400> 123

gggcctctng	agcatgctcg	agcggccgcc	atgtgatgga	tatctgcaga	attcgccctt	60
tcgagcggcc	gcccgggcag	gtactttttt	tttttttttt	tcttttttta	catctgattt	120
taatgcttcg	ttaacttcaa	aaggaactgg	tagagttcag	aaggtgagct	gttggttttc	180
taaacctctt	cccaggaagg	ggacattgac	acttgaattt	ttgtcacctt	tttctcatt	240
agaaggaaag	tagaaagcct	tactgtagga	tttttaaaaa	aaaaatccat	ctcaccccat	300
attggtctta	aataagtata	gactaattaa	cctaagctac	ctttaacaac	gtagaattta	360
gatgggttca	tatatgtgag	aaaaacctga	atataggaca	ggggtcctac	ttttttcccc	420
acctctgtcg	cccaggctag	agtatagtgg	tgtgatcttg	gcccactgca	acctctgctt	480
cctaggttca	agtgattctc	ctgcctcagc	ctcccaagta	gctgggattg	taagagtatg	540
ccaccacgcc	cagctacttt	ttgnattttt	agtagagaca	gggtttcatc	atgttggcca	600
ggatggntct	ttaactcctg	ccctcaagtg	gatccaccag	agaaggagat	cccttggntc	660
tccccaagtg	cctggggatt	attaggcatt	gaagcccacc	cgtggcccca	agccctacnt	720
tttcttaaat	taaatttaaa	aaaaaanaaa	nnnnnnnnnn	nnaaaaaaaa	ccttttcccc	780
aaattgganc	ctgggtttaa	aaaaacctgg	acccttnaan	gggcntggnt	tttggccctt	840
tnaaataaat	tncccctaag	gnnt				864

<210> 124

<211> 467

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1) ... (467)

<223> n = A,T,C or G

<400> 124

antatgacct	gattacgcc	agcttggtac	cgagctcgga	tccactagta	acggccgcc	60
gtgtgctgga	attcgccctt	tcgagcggcc	gcccgggcag	gtacatgcac	acacacacac	120
acacacacac	acgtgtctac	tgggtcctt	ttggattttt	tagttcaatc	agaaatcacc	180
aaacagatca	ataaagaggc	aatgttaaat	gaccgggaaa	ttggtaatgt	gacatcacia	240
cactgccttt	aaagtgccat	atctaaatcc	aggtagcact	gctgctagca	gaatctggtg	300
ttttaggaga	caaggggtgg	ctgggtatgc	tggctcgtgc	ctataattcc	agcactttga	360
gagggcaagg	caggagaacc	acattaggct	aggagtttan	gaccagcctg	ggcaacatag	420
tgagatccca	tctctacaaa	aataaaaaaa	ttagctttcc	agctgct		467

<210> 125

<211> 833

<212> DNA



<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(833)

<223> n = A,T,C or G

<400> 125

gnnnnnnnnnn	ngnnntnnnn	ntttaataga	tgagcgtacg	gngcctgtaa	agcatgctcg	60
agcgccgcc	atgtgatgga	tatctgcaga	attcgccctt	agcgtggctcg	cggccgaggt	120
acctgatata	gtttaacttt	cctctttatc	tttcttagag	atacttcaca	tgtgggacag	180
attatatatt	ggaaagatgt	ccacaacaat	attgcccatc	ccacattgct	catcttacia	240
tgtgatctca	agactcctcc	cactgagtgg	gtgagaaggg	acttatacca	ctttcatttg	300
aatctaggca	gatctgtgtg	acagccttga	ccaatagagt	atgggttaaag	tgatgcccc	360
aggcatgggt	gcccatacct	ggaatcctgg	tttttcgggg	aggcccaggt	gggggtagag	420
gtgaggggga	tgattgtttg	aacacacag	tttgagacta	ccctgagcaa	cacaatgaga	480
ccctattttt	ttttaatgat	ttctgaagca	gaatcacaaa	tagccgtgcg	tttttttctt	540
gcgcttttag	gatacttact	tttaaaaccc	agtcaccata	ttgttaggaa	gccccaaacag	600
cacacataga	gagacatacg	gagaagccaa	ccatagaggt	tcctgttgac	agctcantcg	660
aggtcttaac	caacagtcac	acttagctgc	cagccatatg	agtgaagggc	ttncagatga	720
ttctaacgcc	cagcagttgg	gtccccccag	cctgtaagcc	ttcccagctg	aggcctnaca	780
atgatggagc	anagaaaagt	gtccctgtcc	aaattctgac	ccatgataaa	atg	833

<210> 126

<211> 788

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(788)

<223> n = A,T,C or G

<400> 126

nnnnnnntnn	nnacanttga	ctgataccca	acttggtacc	gactcggatc	cactagtaac	60
ggccgccagt	gtgctggaat	tcgcccttag	cgtggctcgc	gccgaggtac	gcgggggagc	120
agagagaagc	gaggttctcg	ttctgagggg	caggctcgag	atcggctgaa	gagagcgggc	180
ccaggctctg	tgaggaggca	agggaggtga	gaaccttgct	ctcagagggg	gactcaagtc	240
aacacaggga	accctctctt	tctacagaca	cagtgggtcg	caggatctga	caagagtcca	300
ggttctcagg	ggacaggag	agcaagaggt	caagagctgt	gggacaccac	agagcagcac	360
tgaaggagaa	gacctgcctg	tggttcccc	tcgccccagt	cctgcccaca	ctcccacctg	420
ctaccctgat	cagagtcac	atgcctcgag	ctccaaagcg	tcagcgtgct	atgcctgaag	480
aagatcttca	atcccaaagt	gagacacagg	gcctcgaggg	tgacacaggc	cccctggctg	540
tggaggagga	tgcttcatca	tccactttca	ccagctcctc	ttttccatcc	tcttttctct	600
ctccttctnt	ttctnctnct	nctnctgcac	ctntaatacc	aagcacccca	naggaggttt	660
ctgctgatga	tgagacaccc	aaatncttcc	anagtgcctna	anatagcctg	ntncttcccc	720
cttnggnctn	gctttccctt	ncnttanatt	naatnctgat	taaggggttc	cancanncca	780
aaaggaat						788

<210> 127

<211> 766

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(766)

<223> n = A,T,C or G

<400> 127

gggcctctna	agcatgctcg	acggccgcca	tgtgatggat	atctgcagaa	ttcgcccttt	60
cgagcggccg	cccgggcagg	tactccaggt	agttttcctg	cacccaatct	tgggtgagca	120



gcttcctggg	ctccccataa	atgaggtgct	ccatcccatc	atacagcccc	atcatattca	180
gtgcttccca	gatgacctcc	tcaggggtgc	agtagccctc	tatgaagatt	atgcttagga	240
taagtatgag	aatgccagtc	ttgggcatgc	tctggacatc	actcagcatc	ccatcatagg	300
tgaggccccag	ggaggtgaca	aggacaaagg	agtggccagt	gggatccact	tcctttacat	360
caatgccaaa	gaccagcagc	atgcactcgg	aggcttcact	aaacaacaaa	gggaagtggg	420
cttcataatt	ttttatgaca	ctctccagta	tttctgcctt	tgtgateggc	tccttcattt	480
gatacttgaa	gagcagaaac	tgacccaaat	cagtcacctt	ttcatctatc	tcacttctgg	540
gtaaagactc	actgtctggc	aggacctgta	gggtgcttgg	actctctctc	ttttggctgc	600
tggagccctc	atcagattga	tctaattgaa	gggaagcaac	gaccganggg	gaggagcagg	660
ctatctgagc	actctgggga	ggatttggtg	tctcatcatc	agcagaaacc	tnctctgggg	720
tgcttgggta	ttagangatg	gcaggaagaa	gaagangaag	aggaag		766

&lt;210&gt; 128

&lt;211&gt; 779

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(779)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 128

gnnnntnnn	nacactantt	tnngaccogn	canctggtac	cgactcggac	cactagtaac	60
ggccgccagt	gtgctggaat	tcgccctttc	gagcgcccg	cccgggcagg	tactcctcat	120
cctgcgtttg	gtctccaggt	gtcgcctttc	tgccgtgttc	ctaataat	gattcctgtc	180
ttgaaaaaag	cacctgctgc	acagtaagcc	cagggatgtg	gcagctgcag	cgggcttggc	240
tttgtgagga	accgggtgtg	tccacgttgg	gggaacatca	tacttgatac	acacgttttt	300
atttgcacaa	agaaaatgct	atthttggag	ccagaatttt	catgtctgat	ttatgggtgat	360
tttcttaaga	accagaactg	ctggcagaaa	gggggcaccc	acacgcttag	atagccgatg	420
tcttattaga	gggcagtttg	tggttcctga	tttggaaatt	aatattctcc	aaacattcca	480
gtccaatgaa	agtthttatcc	gctttcccat	gtaaaaattc	ttcccatgag	agtgacttga	540
tcctcacaat	cccgttgaag	tcgtgtgtga	gtcctacagt	attaggttca	gcattgccgt	600
ctncaagtgc	tctttgtagg	gaaacagttt	ctggctcatga	caagcttcca	cttccattctg	660
atcctggcct	ggcctggaaa	cagagcacat	gtgtttgagg	atggcngtgt	ttggggacag	720
gacatgancg	tattgtgtgg	ggctgctagg	acangcgtgg	tgtggtgggg	gantgtccn	779

&lt;210&gt; 129

&lt;211&gt; 774

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(774)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 129

ttnnnantgg	gcccntngag	catgctcgac	ggccgccatg	tgatggatat	ctgcagaatt	60
cgcccttagc	gtggtcgagg	ccgaggtacc	tgggtgggac	tgggaaactg	tgaacaagat	120
agactgactt	ggacactccc	ccaccacacc	acgcctgtcc	tagcagcccc	acacaatacg	180
ctcatgtcct	gtcccccac	accgccatcc	tcaaacacat	gtgctctgtt	tccaggccag	240
gccaggatca	gatgggaagt	ggaagcttgt	catgaccaga	aactgtttcc	ctacaaagag	300
cacttggaga	cggcaatgct	gaacctata	ctgtaggact	cacacacgac	ttcaacggga	360
ttgtgaggat	caagtcactc	tcattgggaag	aatthtttaca	tgggaaagcg	gataaaaactt	420
tcattggact	ggaatgtttg	gagaatatta	atttccaaat	caggaaccac	aaactgccct	480
ctaataagac	atcggctatc	taagcgtgtg	gggtgcccc	ttctgcccag	agttctgtgt	540
cttaagaaaa	tcaccataaa	tcagacatga	aaattctggc	tccaaaaata	gcattttctt	600
tgtgcaaata	aaaacgtgtg	tatcaagtat	gatgttcccc	caacgtggac	acaccccggt	660
tcctnacaaa	gccaagcccc	ctgcagctgc	cacattcctg	ggcttactgt	gcacangtgc	720
tttttttaag	acaggatcaa	atnttaggac	ccngnanaan	gcaacacctg	gaga	774



<210> 130  
<211> 803  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(803)  
<223> n = A,T,C or G

<400> 130  
ggnnnnnttnn anacgnatcn gacctganta cgccaacttg gtaccgagct cggatccact 60  
agtaacggcc cgccagtgtg ctggaattcg cccttagcgt ggtegcggcc cgaggtacct 120  
tggaagttat gtcattaata taggctgggt cgtcaataaa agcaaaacct tgcaatatca 180  
gctagattta cactccggga cgttgcccaa aggtaggaag aaagcagagg gaaatatttc 240  
agtcatcatt tccaaagtca ttatcaaaat ctgtgaggaa gtttaatctt ccaaagagtc 300  
aatgtcagac atcaggcctc tgttgccctg ttctctcgag gcactagatt aggagtcttc 360  
aataagagac ttaacatgag gtatatggaa gatgaggcac cgagataagt tcatcattag 420  
gtgtgagcac tgctcaccct tgctggcaag ttctccttaa gggcctgaag cacaggtgtc 480  
caaagaaaag cgtaagtcc atcttaatag aatctatgtg gtatatgatg tggtcagccc 540  
ccggtctgtg atcagcaaga acctacagca cagattatgc cctgcccact tcaatgaata 600  
cctactctcc tncattctcc atcacttttt ttgctatcaa gactccggac cttgcccattg 660  
gagaagttta gagaggaact cttgtggaga gctggtttat tttctgccct gtgcgacgag 720  
tttcagcttg gccaaagaaa ggagtcaagg ttattaaaaa gcatacacaat ggtagatctt 780  
ccaggcttgg ntttttttgt ttt 803

<210> 131  
<211> 818  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(818)  
<223> n = A,T,C or G

<400> 131  
antgggcctc tnnagcatgc tgcagggcgg ccatgtgatg gatatctgca gaattcgccc 60  
ttngcccgtc ttccagnccg gaaacctgtc ntgccagntg cattaatgaa tcngccaaacg 120  
cgcggngaga ggcggnntgc gtattgggcg ctcttcgctc tcctcgctca ctgactcgct 180  
gcgctcggcc gttcngetgc ggcgagcggt atcagctcac tcaaaggcgg taatacngtt 240  
atccacagat caggggatan cggcaggaaa gaacatgtga ncaaaaggcc agcaaaaggc 300  
caggaaccga aaaaaggccg ctttgttggc gtntnaccat aggctcnncc cccttgacna 360  
gcttcacaaa aatctacgct cagntcccag gtgcnaaaatc ccganaggac tntaangatt 420  
cnnggnnttt cccctgaan nctnctant gcgctctcct gtnccaacct tgccgtttac 480  
cggatacctg nccgcctnna tnccttcgng aagcntggct tttnaatngg ctcacttttt 540  
gggnatctaa aancggnnta ggengnncgt tnnaaantng nntttttgcn caaacccctt 600  
gtttaaactn acccatgngc attatcccgg aaacttttgg tnttngaatc caaccnggna 660  
aanacacnan ttaatnngcc nttggentga aaccacttg ggtnaaccat ggatttttggc 720  
ncnaccnagg gtnnttttnn nggcnngtnc ntacccggag ttctttnaaa acnggggtggg 780  
cncttanacc tatcnggnnt tcccctttan aaaaaaat 818

<210> 132  
<211> 777  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(777)  
<223> n = A,T,C or G



&lt;400&gt; 132

acnntatgac	ntgantaccc	aacttggtac	cgactcggac	cactagtaac	ggccgcccagt	60
gtgctggaat	tcgcccttcg	gcccgcgccg	gcaggtagct	ggaaaataac	ttctttcttt	120
tcctctagat	tttcgaagaa	gcaaataaat	caagaataga	aacctatata	taggaggttg	180
ggcctcctgc	aaagaatgaa	gcactttttg	ttaaatacac	gagaggctac	ttggctgcac	240
taatatgtgc	tttttggaat	cttatagagt	gtcaccaagt	tgaactttgg	aatggcttga	300
atcatccctg	gagcatctgt	gccgggcagt	caggagttag	tgcaccgcct	cccaccagc	360
cccattgggc	ctcacaccct	cttcattcct	ttccccatga	ggcaggcaaa	cacggctcatg	420
accatttttg	ggttcacttc	aaccaggtct	tctggcaggg	catacactct	tgctccaatt	480
tttcggggcca	tagagatggc	atattttgca	ttgttgagtt	tctcatcatc	attcagattt	540
tctgtcttca	gaaggctcata	gttaatggaa	cctggtttga	tggcatcgat	gangtccaga	600
acaggcagac	ttgtacctcg	gccgcgacca	cgctaagggc	gaattctgca	gatatncatc	660
acactggcgg	gccgntcgag	catgcatcta	ganggcccaa	ttcgccctat	agtgagtcgt	720
attacaattc	actggggccgt	cgttttacia	cgctcgtgact	gggaaaaccc	tgcgttn	777

&lt;210&gt; 133

&lt;211&gt; 775

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(775)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 133

ntgggcctct	nnagcatgct	cgacggccgc	catgtgatgg	atatctgcag	aattcgccct	60
tagcgtgggc	gcggccgagg	tacaagtctg	cctgttctgg	acctcatcga	tgccatccaa	120
ccaggttcca	ttaactatga	ccttctgaag	acagaaaatc	tgaatgatga	tgagaaactc	180
aacaatgcaa	aatatgccat	ctctatggcc	cgaaaaattg	gagcaagagt	gtatgccctg	240
ccagaagacc	tggttgaagt	gaacccccaa	atgggtcatga	ccgtgtttgc	ctgcctcatg	300
gggaaaggaa	tgaagagggt	gtgaggccca	atggggctgg	gtgggaggcg	gtgcaactac	360
tcctgactgc	ccggcacaga	tgctccaggg	atgattcaag	ccattccaaa	gttcaacttg	420
gtgacactct	ataagattcc	aaaaagcaca	tattagtgcg	gccaaagtag	ctctcctgta	480
tttaacaaaa	agtgttcat	tctttgcagg	aggcccaacc	tntatataat	aggtttctat	540
tcttgattta	tttgttctt	cgaaaatcta	gaggaaaaga	aagaagttat	tttccaggta	600
cctgcccggg	cggccgaang	gcgaattcca	gcacactggc	ggccgttact	agtggatccg	660
agctcggtac	caagcttggc	gtaatcatgg	tcatagctgt	ttcctgtgtg	aaattgntat	720
ccggtcacaa	ttcccacaca	tacgaacccg	gaagcataaa	gtgtaaaagc	tgggg	775

&lt;210&gt; 134

&lt;211&gt; 772

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(772)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 134

acnnttgacc	tgatacccag	ctgggtccgac	tgggacccta	gtaacggccg	ccatgtgctg	60
gaattcgccc	ttgagcggcc	gccggggcag	gtctataagt	ctttaaattg	ggtcgtgttt	120
ttagcaggta	agactaattt	atctctttct	cagtgaattg	atgctgggtg	gattcgattt	180
cacatcacaa	cttatattga	tagggatttc	cttcccaaga	gtaataaatt	gtttggtttg	240
atataaactt	gggggcatat	tcaatatcaa	ggtacttttt	tttttttttt	aagttttagt	300
tcagaataac	attaattttg	agagattgag	gtaaagaacc	ttaactaatg	ctaaggagtt	360
tatttttgatt	aacataggtt	attctgacca	ccacctcttc	cttccttaat	ctccttagaa	420
tctgacagtc	tcaaagctgt	cacacaaatt	agactaattt	tgacactttg	aaatgaaaac	480
ttcaaggaag	aagtagccac	ggacagttat	gtttataatc	agtaggtggc	actctttcct	540
caggtagccc	cccattttca	catgatgtgt	ttgaagggtta	aatgccccaa	aagtgtctgag	600
tcagctataa	aactaagtc	ctgaattcca	tggccctttt	aaatatgtaa	tcattcaaga	660



```

ttgaaaaaaaa aaattaagca ttttttgntt gnttgcttgg ttggttttga gacngagttt 720
cactcttgnt ggccaggctg gaggcaatg gcgccatctn actcactgna ag 772

```

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<210> 135
<211> 784
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(784)
<223> n = A,T,C or G

```

```

<400> 135
ntgggcctct nnagcatgct cgacggccgc catgtgatgg atatctgcag aattcgccct 60
tagcgtgggtc gcggcccagag gtacttcttt tgaataattc agtattttta aaatgcaagc 120
caggcacagt ggctcacgcc tgtaatccag cactttggaa ggccgagggt gggggatcac 180
gaggctcagga gttcaagacc agcctggcca acatggtgaa acctcatctc tactaaaaat 240
acaaaaacta gctgggcatg gtggcgggca cctgtaacc cagctacttg gagggctgaa 300
ggagaattgc ttgaatccgg gaggcagagg ttgcagtggag ctgagatggc gccattgcac 360
tccagcctgg ccaacaagag tgaaactccg tctcaaaaac aaacaagcaa acaaacaaaa 420
aatgcttaat tttttttttc aatcttgaat gattacatat ttaaaagggc catggaattc 480
agggacttag ttttatagct gactcagcac ttttggtggc atttaacctt caaacacatc 540
atgtgaaaat gggggggtac ctgaggaaag agtgccacct actgattata aacataactg 600
tccgtggcta cttcttcctt gaagttttca tttcaaagtg tcaaaattag tctaatttgt 660
gtgacagctt tgagactgtc agattctaag gagattaaag gaanggaaga ggtgggtggc 720
agaataacct atgttaatca aaaataaact tccttagcat taagttaang gtctttacct 780
caan 784

```

```

<210> 136
<211> 768
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(768)
<223> n = A,T,C or G

```

```

<400> 136
acnttgantg naccacttg tccgactcgg atccctagta acggcgcagt gtgctggaat 60
tcgccctttg agcggccgcc gggcaggtag tttttttttt cttttttttac atctgatttt 120
aatgcttcgt taacttcaaa agggaaactgg gttagattca gaaggtgagc tggtgttttt 180
ctaaacctct tcccaggaag gagacattga cacttgaatt tttgccacct ttttcctcat 240
tagaaggaaa gtagaaagcc ttactgtagg attttttaaa aaaaatccat ctcaccccat 300
attggtctta aataagtata gactaattaa cctaagctac ctttaacaac gtagaattta 360
gatgggttca tatatgtgag aaaaacctga atataggaca ggggtcctac ttttttcccc 420
acctctgccg cccaggctag agtatagtgg tgtgatcttg gccactgca acctctgctt 480
cctagggttca agtgattctc ctgcctcagc ctcccaagta gctgggattg taagagtatg 540
ccaccacgcc cagctacttt ttgtattttt agtagagaca ggggtttcatc atgttggtcca 600
ggatggtctc ttaactcctg ccctcaagtg atccaccaga gaggagatcc tcggccttcc 660
caagtgctgg gattataggc atgagccacc gtaccagcc tactttctaa ttaattaaaa 720
aaaaannnnn nnnnaaaaaa acttnccaaa tgactgataa aaaactgc 768

```

```

<210> 137
<211> 777
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(777)

```



<223> n = A,T,C or G

<400> 137

ttgggacct	ngagcatgct	cgacggccgc	catgtgatgg	atatctgcag	aattcgccct	60
tagcgtgggc	gcgcccgagg	taccatgctg	acttcttggt	atcttttaag	gcctaatttt	120
cccttccttg	agattactgt	agtgtgttcc	agctaatttc	tatttggaag	cgagttggaa	180
cagctgaaaa	ctaggtatta	ttgaaggcaa	agtagcctca	cgtaggtttt	ttatcagctc	240
atttggaag	tttttttttt	tttttttttt	ttttttaatt	aattagaaag	taggctgggt	300
acgggtggctc	atgcctataa	tcccagcact	tggggaggcc	gaggatctcc	tctctggtgg	360
atcacttgag	ggcaggagtt	aagagaccat	cctggccaac	atgatgaaac	cctgtctcta	420
ctaaaaatac	aaaaagtagc	tgggcgtggg	ggcatactct	tacaatccca	gctacttggg	480
aggctgaggg	aggagaatca	cttgaacctt	ggaagcagag	gttgcagtgg	gccaagatca	540
caccactata	ctctagcctg	ggcggcagag	gtggggaaaa	aagtaggacc	cctgtcctat	600
attcaggttt	ttctcacata	tatgaacca	tctaaattct	acgttggtta	aggtagctta	660
ngttaattag	tctatactta	tttaagacca	atatgggggtg	agatggattt	ttttttaaaa	720
atcctacant	aaggctttct	actttccttc	taatgaggaa	aaaagtggca	aaaattt	777

<210> 138

<211> 950

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(950)

<223> n = A,T,C or G

<400> 138

nnnnnnnnnn	nnnnnnnnnn	nttnnnnnnn	nnnnnaaanc	cnnnnnttna	nnngnnaaac	60
cccattggna	aanntaaccn	ncccccaaaa	gccctttngg	ggtttaaccc	ccgaaagcct	120
tccgggggna	atccccaaact	ttaagttaaa	acngggggccc	cgggcccaag	ttggttggcc	180
tttgggggaa	aattttccgcc	ccctttccga	agccggggccc	ggcccccgggg	gccaagggta	240
ccatgggaat	ggttaccttt	tggcaagaac	tggtcaaacc	ctggaaattt	tggtattttt	300
gctttggaca	ttggccctaa	attaattaag	tttcaagggtg	gtcaggcttt	accactttt	360
tggtctggca	acatgcagaa	gagacagtgc	cctttttagt	gtatcatatc	aggaatcatc	420
tcacattggg	ttgtgccatt	actggtgcag	tgactttcag	ccacttgggt	aaggtggagt	480
tggccatatg	tctccactgc	aaaattgctg	attttccttt	tgtaattaat	aagtgtgtgt	540
gaagattctt	tgagatgagg	tatatatctc	actcttcac	aaactataag	tttttttaag	600
taaaagaaaa	tttattatga	aactaaagga	ataaaagaat	gaccactcca	taggcagaga	660
aacgtcactt	taaggttttg	acgtcaattg	atttttgtcc	aatcaataa	ttactgcaat	720
gattgaaaaa	tgattattac	taagtttggt	ttcattgtct	caaggtctgc	tgaactctgg	780
atccaggctg	tgtcaacagg	gtagtgtggt	gcctcctgta	cctcggccgc	gaccacgcta	840
agggcgaatt	ctgcagatat	ccatcacact	ggcggccggt	cgagcatgca	tctagagggc	900
ccaattcgcc	tatagtgagt	cgtattacaa	ttcactggcc	cgcgttttag		950

<210> 139

<211> 779

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(779)

<223> n = A,T,C or G

<400> 139

ttgggcccct	agagctgctc	gagcggccgc	catgtgatgg	atatctgcag	aattcgccct	60
tagcgtgggc	gcgcccgagg	tacaggaggc	accacactac	cctgttgaca	cagcctggat	120
ccagagttca	gcagaccttg	agacaatgaa	aacaaactta	gtaataatca	tttttcaatc	180
attgcagtaa	ttattgattt	ggacaaaaat	caattgacgt	caaaacctta	aagtgacgtt	240
tctctgccta	tggagtgggc	attcttttat	tccttttagt	tcataataaa	ttttctttta	300
cttaaaaaaa	cttatagttt	gatgaagagt	gagatatata	cctcatctca	aagaatcttc	360



acacacactt	attaattaca	aaaggaaaat	cagcaatttt	gcagtggaga	catatggcca	420
actccacctt	acccaagtgg	ctgaaagtca	ctgcaccagt	aatggcacaa	accaatgtga	480
gatgattcct	gatatgatac	actaaaaagg	gcactgtctc	ttctgcatgt	tgcagacaaa	540
aagtgggtaa	gctgacactg	aaactaataa	ttaggcaatg	tcaagcaa	acaaattcag	600
gttgacagtc	tgcaaagtaa	catccatgta	cctgcccggg	cngnccgctc	gaagggcgaa	660
ttccagcaca	ctggcgggccg	ttactagtgg	atccgagctc	ggtagccaagc	ttggcgtaat	720
catgggcata	gctggttcct	gtgtgaaatt	ggtatncgct	cacaattncc	acaacatag	779

&lt;210&gt; 140

&lt;211&gt; 779

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(779)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 140

gcccntagag	catgctcgac	ggccgccagt	gtgatggata	tctgcagaat	tgcgcccttag	60
cgtgggtcgcg	gccgaggtac	caggtgggct	gacgcacatc	ccctaaacat	tctggatctc	120
ttactcatcg	tgaaaggcag	acgctctaag	tctaaagtct	agggtaggag	tttccattct	180
ttggaaaacc	aaagatgggt	actcttctta	atgaaactga	gaagaaggta	tctacagaaa	240
acactgaatt	taaacaaatt	atgaccttgt	ttgttgaagc	catcaaggac	ccaagatata	300
tcaaagaaca	acatctctgt	attggcctac	aggttcagag	tgttttgagg	tctgtttaag	360
cactaatagg	atthttaggcc	agcatccagt	cagaagagat	agttcacaga	ctcagagttg	420
gaaacagatt	aaaaaaaaaa	agatgtcaac	atagaaaatg	atgatagagt	ttagttaaaa	480
aaattcacac	ataaaattac	agttaaaaaa	attcacacat	aaaatagagt	gtttgcatag	540
caagacatta	ttgcccttca	gcctggcaga	aaaacataaa	ctcaggtgta	tattttataa	600
taaacattgt	attgaatgct	aagaatgata	cactgttgaa	catctcctga	atgggttgcc	660
ttcttgtaaa	tcataccaat	tgtttagaca	attgaaattc	caagctcttt	ctcttctccc	720
atataaaaaac	caacagaaac	anggaggctg	ttagtagcaa	gctcctcatg	ggaaanggt	779

&lt;210&gt; 141

&lt;211&gt; 986

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(986)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 141

aanccnnnnn	ntttattttg	gnaaacccaa	ttgggnaaaa	ttnaaccn	cccccnaaa	60
ngcccttttn	gggggttnaa	ccccccggaa	aaccctttcc	gggggggaa	tccccaacct	120
ttaaagnttt	aaaaacccgg	ggggccccgg	cccccaaagt	ttgggttggc	cnttggggga	180
aaaatttttt	ccgggcccc	cnttttaag	cccggttggg	gtttccggcc	ngggggcccc	240
gggaaaggtt	tnaccctttt	ttttttaact	tttttnnntt	tccttttttn	nttctttttt	300
tttctttttt	tttttctttg	gtntnnnttt	ttttttcaat	tttttggttt	ttgggttttg	360
gttatgggtt	ttttagaaca	ggggtcccac	tctgtcaccc	aggctggagt	gcagtgggtg	420
aatcacaggt	cactgaaacc	tcccacctag	ctgggactag	aggtgcaggc	caccacacca	480
gctaatttat	gtaatttttt	tagagacgag	tttcaccacg	ttacctaggc	ttgtcttgaa	540
cacctgggct	caagcaatct	tccagcccca	gcctcccaaa	gtgctgggat	tacaggtata	600
aaccacaatg	cccccgtttt	tactctttac	tgcctcttcc	ccatcagtat	taattcctca	660
gaaatttagt	acccctgtgc	ttcattcagt	atcagtaacc	ctgcaatgat	ttttacaaat	720
atctttttct	agtgggtttt	ttacttagag	gaaagaactt	tgtaatagct	cttaatgttt	780
atatataaga	gaagacagaa	tggaaaatgt	tttttgaaat	caaataattgc	atgatgtaaa	840
gaaaaaactt	taaacttaaa	tgagtanggt	tgtcctgaat	tacactggta	actctctact	900
tctttattaa	agaagttata	gtaagatgcc	tttggntacc	tgatttcagt	gtacctgccc	960
gggcggcgccg	ntcaaaagg	cgaant				986



<210> 142  
<211> 780  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(780)  
<223> n = A,T,C or G

<400> 142  
gggcccggtan agcatgctcg agcggccgcc atgtgatgga tatctgcaga attcgccctt 60  
tcgagcggcc gcccgggcag gtacactgaa atcaggtaac aaaggcatct tactataact 120  
tctttaataa agaagtagag agttaccagt gtaattcagg acaacctact catttaagtt 180  
taaagttttt tctttacatc atgcaatatt tgacttcaaa aaacattttc cattctgtct 240  
tctcttatat ataaacatta agagctatta caaagttctt tcctctaagt aaaaaacca 300  
ctagaaaaag atatttgtaa aaatcattgc agggttactg atactgaatg aagcacaggg 360  
gtactaaatt tctgaggaat taatactgat gggaaggatg cagtaaagag taaaaacggg 420  
ggcattgtgg ttataacctg taatcccagc actttgggag gctggggctg gaagattgct 480  
tgagcccagg tgttcaagac aagcctaggt aacgtggtga aactcgtctc tacaaaaatt 540  
cataaattag ctggtgtggt ggcctgcacc tctagtccca gctaggtggg aggtttcagt 600  
gacctgtgat tgcaccactg cactccagcc tgggtgacag agtgggaccc tgtctaaaaa 660  
aaacataaca naacanaacn naatgaaaaa aaaaacaaga aaaaagaata gaaaaagaaa 720  
aaagtnaaaa gtncctcggn cgcgaccacg ctaagggcga attccagcac actgcggccn 780

<210> 143  
<211> 794  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(794)  
<223> n = A,T,C or G

<400> 143  
nnnnnnnnnn nnnacnnttg actgataccc aacttggtac cgactcggac cactagtaac 60  
ggccgcaggt gtgctggaat tcgccctttc gagcggccgc ccgggcaggt acagaaagaa 120  
gagccaggat attctttgtt ttccaaagcg tagctgtgag caacattatc tctcctactg 180  
gcttctttga ggtatgagag tcatcattac atctgtgtgc tttgtcaagt tatatgtcac 240  
aattccacct gtgggtagag aacaagcaca agagtcacat caactgtgtg ctgggccagg 300  
gttatgtcac aatcttccct gagagcatgc accaggcaga agagtcacat cacagggttc 360  
tcaaccagag atgttacaat cctctcctga aagcaggaca caggaaaaag agtaagatca 420  
cctgcatgct gggctcagat atatgtcaca agactcactg tgggcaaagt ccagaaggac 480  
agacagaaca gctggttgct tgaccagca atatgtcaca atcttctcta tgggcagaat 540  
gcaggcagaa gtagagggtc tcatcttcca ggtgatggat taaaaaata catcccaagg 600  
ctctctgtgg gaaagggtc angcagaaac tttccaaccc ctangtgttt gcttcagtga 660  
tatgtcacaa ttaacaaaaa tatgcaggtt tcaagcaagt gagtnaagtc atatcaccta 720  
nggtgcttgg tccanaaatc tgnccacaat tttttttttt ttttggcatg cccagcngaa 780  
ttgaaaagtc ncan 794

<210> 144  
<211> 782  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(782)  
<223> n = A,T,C or G

<400> 144



```

cnannngggcc cntagagcat gctcgacggc cgccagtgtg atggatatct gcagaattcg      60
cccttagcgt ggtcgcgggc gaggtacaat cttgggtcac tgcaacctcc acctcccg      120
ttcaagcaat tctcctggct cagcctcctg agtgctggga ctacaggcat gcaccaccac      180
ccccacctaa ttttgtattt ttgatagaga cggggcttct ccatgttggt caggctgttc      240
tcaaactcct gacctcagggt gatttgactg tcttagcctc ccacagtgtc gagcttatag      300
gcagggtgcca cgacacctgg ctggaatcat ttatttcaac atatctctgg gtccaacaac      360
atgggtgatgc aactttctctg catgggccct cccacagaaa tactctaata catcttttca      420
ttcattatct tgggtgatgtg acttttctat tctgcttggg cactgccaaa aaaaaaaaaa      480
aagattgtga cagattttctg gaccaagcac ctaggtgata tgactttact cacttgccctg      540
aaacctgcat attttgggta ttgtgacata tcaactgaagc aaacacctag ggggttgaaa      600
gtttctgcct gagcccttcc acagagagcc ttgggatgta tttttttaat ccatcacctg      660
ggagatgaaa ccctctactt ttgcctgcat tctgcccata gagaagattg tgacatattg      720
ctgggtcaag caaccagct ggtctgctgt ccttntggac tttgccaca agtgagtttt      780
gn

```

```

<210> 145
<211> 780
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(780)
<223> n = A,T,C or G

```

```

<400> 145
annnttgacc tgataccag cttggtaccg agctcggatc cactagtaac ggccgccagt      60
gtgctggaat tcgcccttcc gagcgccggc cggggcagggt acttttttta cttttttttt      120
cttttttttt ttggacatct gttttcactc ttaggctttt aaacaatagt tattgctttt      180
atccctctca gattctaata actgagagcg atggggctat attgaatctc tgtatgcact      240
gagaactgag ctatgaagag gatcttatta aactgctggt ctgactttat ggattgacac      300
tgttccttcc ttttattgtg aaaaaaaaaa aaaccctga aagtcttggg aacccccctaa      360
agtccttttg gaatcctcaa aaagcatggg aagttaagta ttagctaca taaatgttgt      420
aagatcatat cttatgtata gaagtaataa gaccatttgg aattactgga ctaattgaat      480
agttaagggt tctattcggg acaataaaat gtattttgaa agtgctgcta actattgatg      540
ctgacagtgt ttcactccta tgagtgaacc aaacatatta taaatatgtg gtaaagggaa      600
tggagcctgt ggggttgagc agaatgttgg actttttttt tnnnnnnnnnn nttttttngc      660
ttnctattng atngataacg atttcnggat tncctttaaa nncncngang gtttggaac      720
tttggaactgg attctgggtc ccngaaacag gttcactggg nncgggggga cacttttaan      780

```

```

<210> 146
<211> 778
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(778)
<223> n = A,T,C or G

```

```

<400> 146
ttgggcccct agagcatgct cgacggccgc catgtgatgg atatctgcag aattcgccct      60
tagcgtgggc gcggccgagg tacatggagg cctggactgt aaagagacta cggaaggggc      120
agcatgtgtg ttttgcttct cagattcatt gtcactcacg ttgcataaag tcctcagttg      180
tttttaagta attgttttac tatggatata ttaaacatac agaataaaaa agggaataaa      240
catacaattt ggcaaaccct ctactgagcc tttaaaaata ttagaagggt ggtattaaac      300
caggtaactt acggatttgg aaaaaaaaaa aaaaagaaag cattgaatat ggctgggcgg      360
ttctctgggg atccttgggc agaccaggtt tgccccgatt tctcactgta gttttcaaga      420
ataactgtag gaggcggtgg gagtgcagca tcctgagata agggagacga gccagaacag      480
cgcgggcact gttccagccc ccctagaaat ggggttgatc tcagtgtctc agctcagtg      540
gtcatgtctc acccacgatg taaaagccta ggatcggagg cttccccagg gttcgtcagc      600
tgtggcacia tagggcccggt tgcaaataag attctattcc tgtcagacag tttcgtgagt      660

```



```
ttgtggggga acactcaccc tagcttctgn tgnctcttca tgccctgtgtg ttccctaataca 720
acttttttgn gtaacttggg gttttgaaag tgtcaccagc acacaatgga acctgtcn 778
```

```
<210> 147
<211> 784
<212> DNA
<213> Homo Sapien
```

```
<220>
<221> misc_feature
<222> (1)...(784)
<223> n = A,T,C or G
```

```
<400> 147
acnntatgac ctgattacgc caacttggtg cgcactcgga ccactagtaa cggccgcccag 60
tgtgtctggaa ttgcgccctt cgagcggccg cccgggcagg tacttttttt tttttttttt 120
tttttttttg ggattgaatc aacatgcttt aataggaaaa gatgtatggg ctatatatgn 180
atcaatctgg ngaancctcg ntctaataaa gggctctttt cttttctatg atacacacag 240
ncacgtgat aatatgcnaa tgaacatttt cttttatgnc tctncanata atgggtattg 300
gctgaggnaa attaaattcc caccangnt tgctgncagt attttaacac ccacattagt 360
atatgcntnc agggtcataa ccccctaaaa tccatnatgc aaccttatta atctggcttg 420
ggantccngg ttaatgcttg gatttanttc ctgattacac tncntngaaa agtgagacat 480
ttgncattcc caactttggg aaaaccaact tatattcaac cntntnaatg aaggccatct 540
tgatggntcc aacactaatt tttatgatgc aaatttatac acngattttt gtaaagggca 600
aagttttaaa agcgtattta acttgatggg ttctatcagc attaatnaaa tggncatgaa 660
taggcattaa aaacagttgc cagtgatnat ctgcatgaaa ggaaaaagaa ccctgcaaatt 720
ggctattgaa nttggaaaata ttggnnttga natgtaagaa aatntttaga aagctcncnc 780
tgng 784
```

```
<210> 148
<211> 775
<212> DNA
<213> Homo Sapien
```

```
<220>
<221> misc_feature
<222> (1)...(775)
<223> n = A,T,C or G
```

```
<400> 148
gggccentn agcatgctcg acggcccgcca gtgtgatgga tatctgcaga attcgccctt 60
agcgtgggtc cggccgaggt acaaagcact gtttaaaacc agtccaagat acttaatcca 120
aactgtatca tgattcttca ttagaaatct agacaccact catgggtggt tcttacactt 180
taaaaagttg aggcattttc agtgtgagca ttctgaatat ctcttacata tcaaaaacaa 240
tacttccaac tcaatagcca tttgcagggt tctttttcct tcatgcagat tatcactggc 300
aactgttttt aatgactatt catgaccatt ttatttatgc tgatagaaaa catcaagtta 360
aatacgcttt taaaactttg tcctttacaa aaatcagtg ataaatttgc atcataaaaa 420
ttagtggtga gaccatcaag atggccttca tttatatggg tgtatattag ttggttttcc 480
cagagttggg aatggcagat gtctcacttt tctatgtagt gtaatcagga aataaatcca 540
agcactaaac aggaatccca agacagatta ataagggtgc atgatggatt ttaggggggt 600
atgaccctgg acgcatatac taatgtgggt gttaaaatac tgacagcaag ccctgggtggg 660
aattaattta cctcagacaa taaacattat ctggagagac ataaaggaaa atgttcattt 720
gcatattatc agcgtggctg ggtgtatcat agaaaaagaa aaagaacctt tttan 775
```

```
<210> 149
<211> 783
<212> DNA
<213> Homo Sapien
```

```
<220>
<221> misc_feature
<222> (1)...(783)
```



<223> n = A,T,C or G

<400> 149

acnntatgac	ctgatacgcc	aagcttggtg	ccgagctcgg	atccactagt	aacggccgccc	60
agtgtgctgg	aattcgccct	tagcgtgggc	gcggccgagg	tacccgatta	aaccagagca	120
aaaactacct	tctgcaggtc	agggagctaa	tgacatggca	ttggccaaac	gttcccgcag	180
tcgaactgct	acagaatgtg	acgttcgtat	gagcaagtct	aagtcagaca	atcagatcag	240
tgacagagct	gctttggagg	ccaaagtga	ggatcttctc	acgctggcaa	aaaccaaaga	300
cgtagaaatt	ttacatttga	gaaatgaact	gcgagacatg	cgtgccccagc	tgggcattaa	360
tgaggatcat	tctgagggtg	atgaaaaatc	tgagaaggaa	actattatgg	ctcaccagcc	420
gactgatgtg	gagtccactt	tattgcagtt	gcaggaacag	aatactgcca	tccgtgaaga	480
actcaaccag	ctgaaaaatg	aaaacagaat	gttaaaggac	aggttgaatg	cattgggctt	540
ttccctagag	cagagggttag	acaattctga	aaaactgttt	ggctatcagt	ccctgagccc	600
agaaatcacc	cctggtaacc	agagcgatgg	aggaggaact	ctgacttctt	cagtggaang	660
ctctgcccc	ggctcantgg	gaggatctct	tgagtcagga	tgaaaataca	ctaattggacc	720
attagcacag	tacttcatgg	caatttagac	agtgagtga	atgaggtcta	ccagcccctt	780
ann						783

<210> 150

<211> 771

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(771)

<223> n = A,T,C or G

<400> 150

gggcccntan	agcatgctcg	acggccgcca	tgtgatggat	atctgcagaa	ttcgcccttt	60
cgagcggccg	cccgggcagg	tactgtgttg	gttctcttcc	atctggtgta	tccgttcagt	120
caggcaagcc	acggcaactt	cactggcatt	cccgtgctc	cccttccggg	agcgtcttat	180
gctggggatg	ccttccgact	ctgaggagga	tggtgcatcc	agcgcatcat	cgctcgatgt	240
gaggggctgg	tagacctcac	tgcactcact	gtctaaattg	tccatggagt	tactgtgctg	300
atgggtccatt	agtgtatttt	catcctgact	caagagatcc	tccactgagc	caggggcaga	360
gccttccact	gaagaagtca	gagttcctcc	tccatcgctc	tggttaccag	gggtgatttc	420
tgggctcagg	gactgatagc	caaacagttt	ttcagaattg	tctaacctct	gctctagggg	480
aaagcccaat	gcattcaacc	tgtcctttaa	cattctgttt	tcatttttca	gctggttgag	540
ttcttcacgg	atggcagtat	tctgttcctg	caactgcaat	aaagtggact	ccacatcaag	600
tcggctgggtg	agccataata	gtttccttct	cagatttttc	atcacccctca	gaatgatcct	660
cattaatgcc	cagctgggca	cgcatgtctc	gcagttcatt	tctcaaattgt	aaaattttcta	720
cgtcttttgg	ttttggcagc	gtgagaagat	ccttncttgg	nctcnaagcn	g	771

<210> 151

<211> 778

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(778)

<223> n = A,T,C or G

<400> 151

acnntatgac	ctgatacgcc	agcttggtac	cgactcggat	ccactagtaa	cggccgcccag	60
tgtgctggaa	ttcgcccttt	gagcggccgc	ccgggcagg	actttttttt	ttcttttttt	120
acatctgatt	ttaatgcttc	gttaacttca	aaaggaaactg	gtagagttca	gaagggtgagc	180
tggtgttttt	ctaaacctct	tcccaggaag	gagacattga	cacttgaatt	tttgccacct	240
ttttcctcat	tagaaggaaa	gtagaaagcc	ttactgtagg	atttttaaaa	aaaaatccat	300
ctcaccccat	attggtctta	aataagtata	gactaattaa	cctaagctac	ctttaacaac	360
gtagaattta	gatgggttca	tatatgtgag	aaaaacctga	atataggaca	gggggtccctac	420
ttttttcccc	acctctgccg	cccaggctag	agtatagtgg	tgtgatcttg	gcccactgca	480



acctctgctt	cctaggttca	agtgattctc	ctgcctcagc	ctcccaagta	gctgggattg	540
taagagtatg	ccaccacgcc	cagctacttt	ttgtattttt	agtagagaca	gggtttcatc	600
atgttggcca	ggatggtctc	ttaactcctg	ccctcaaagt	gatccaccag	agaggagatc	660
ctcggcctnc	ccaagtgctg	ggattatagg	catgagccac	cgtacccagc	ctactttcta	720
attaattaaa	aaaaaannnn	nnnnaaaaaa	aacttnccaa	atgagctgat	aaaaacng	778

&lt;210&gt; 152

&lt;211&gt; 772

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(772)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 152

gggcccntag	agctgctcga	cggcccgccat	gtgatggata	tctgcagaat	tcgcccttag	60
cgtggctcgcg	gccgaggtac	catgctgact	tcttggtatc	ttttaaggcc	taattttccc	120
ttccttgaga	ttactgtagt	gtgttccagc	taattttctat	ttggaaacga	gttggaacag	180
ctgaaaacta	ggtattattg	aaggcaaaagt	agcctcacgt	cagtttttta	tcagctcatt	240
tgggaagttt	tttttttttt	tttttttttt	tttaattaat	tagaaagtag	gctgggtacg	300
gtggctcatg	cctataatcc	cagcacttgg	ggaggccgag	gatctcctct	ctgggtggatc	360
acttgagggc	aggagttaag	agaccatcct	ggccaacatg	atgaaaccct	gtctctacta	420
aaaatacaaa	aagtagctgg	gcgtgggtggc	atactcttac	aatcccagct	acttggggagg	480
ctgaggcagg	agaatcactt	gaacctagga	agcagaggtt	gcagtgggcc	aagatcacac	540
cactatactc	tagcctgggc	ggcagaggtg	gggaaaaaag	taggaccctt	gtcctatatt	600
caggtttttc	tcacatatat	gaacccatct	aaattctacg	ttgttaaagg	tagcttaagt	660
taattagtct	atacttattt	aagaccaata	tggggtgaga	tggatttttt	tttaaaaaat	720
cctacagtaa	ggntttctac	tttcctttcta	atgaggaaaa	angnggcaaa	at	772

&lt;210&gt; 153

&lt;211&gt; 780

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(780)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 153

acnntatgac	ntgaatacgn	ccaagcttgg	taccgagctc	ggatccacta	gtaacggccg	60
ccagtgtgct	ggaattcgcc	cttagcgtgg	tcgcggccga	ggtacttttt	tttttttttt	120
tttttttttt	tttagttaa	gaatgcttta	ttaatacaaa	tacacacaaa	ctctgaagca	180
ctaagaaatt	taaatatcta	tgtcacagca	aacaggtggc	aattcaacat	ccagggtcga	240
cagaatgctt	gaaggagact	gcaacagatt	ggattcccat	ggtggagagg	gcatnttcac	300
aggtgaaggg	gggcccagct	gaaacagctt	ttcaagctct	ctctcctcgt	caaggatcat	360
gagaggcact	ccactcaagg	ggaggtgcgc	aatctgggtg	tcttcaggca	ggtcaaaaact	420
ctcaaagtct	agaggattga	agggaaagaa	tttttctatt	tctggatagg	catcatctga	480
ggcaggaaca	gagctttttg	ctttaacagt	cttctcagtc	atcttttttg	cagaaaagct	540
tggctgtttt	tgtttgaggg	gtcccttggg	ctttacagac	ttttctgtag	ctctgttgac	600
agttcccaaa	gcctttctag	tagcttttag	taaggctggg	ggggcatcga	acgtttttgcc	660
aaaacgtggg	gttgaaaact	gagatctccc	atctaangct	ttgattgaan	gtccagaccc	720
cagcttcagc	ccatccttag	caaccacacn	ggtgcctggg	tctncatttt	ccttatnang	780

&lt;210&gt; 154

&lt;211&gt; 770

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;



<221> misc\_feature  
<222> (1)...(770)  
<223> n = A,T,C or G

<400> 154  
gncctgttnna gctgctcgag cggccgccat gtgatggata tctgcagaat tcgccctttc 60  
gagcggccgc ccgggcaggt acgcggggac cgcggcctca gatgaatgcg gctgttaaga 120  
cctgcaataa tccagaatgg ctactctgat ctatgttgat aaggaaaatg gagaaccagg 180  
cacccgtgtg gttgctaagg atgggctgaa gctggggctct ggaccttcaa tcaaagcctt 240  
agatgggaga tctcaagttt caacaccacg ttttggcaaa acgttcgatg ccccaccagc 300  
cttacctaaa gctactagaa aggctttggg aactgtcaac agagctacag aaaagtctgt 360  
aaagaccaag ggacccctca aacaaaaaca gccaaagctt tctgccaaaa agatgactga 420  
gaagactggt aaagcaaaaa gctctgttcc tgcctcagat gatgcctatc cagaaataga 480  
aaaattcttt cccttcaatc ctctagactt tgagagtttt gacctgcctg aagagcacca 540  
gattgcgcac ctccccttga gtggagtgcc tctcatgatc cttgacgagg agagagagct 600  
tgaaaagctg tttcagctgg gcccccttc acctgtgaag atgccctctt caccatggga 660  
atccaatctg gtgcagcttc ttcaagcatt ctgtcgacct tggatgttga attgccacct 720  
gtttgctgtg acatagatat ttaaatttct tagtgcttca gaggtttgnng 770

<210> 155  
<211> 767  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(767)  
<223> n = A,T,C or G

<400> 155  
acattatgac tgatacgcca gcttggtacc gactcggatc cactagtaac ggccgccagt 60  
gtgctggaat tcgcccttag cgtggctcgc gccgaggtag gcgggcccgc tggataactg 120  
ccctgggaca cagcagcggg aagccgcctg cagactgaac ctactgacc caggtggaaa 180  
tcgttaggtc atttactgct aagcagccag atgaactctc cctgcagggt gctgacgtcg 240  
tctcatctta tcaacgtgtc agcgatggct ggtatgaggg ggaacgacta cgagatggag 300  
aaagaggctg gtttcttatg gaatgtgcc aaggagataac atgtcaagct acaattgata 360  
agaatgtgga gagaatggga cgcttgctag gactggagac caacgtgtag tctctcagat 420  
ggtcttttgt tactgcaaga tttgcacgac acttaccggg ctggttggtt ctgggctagt 480  
tttattgnta attttgtcac agcctattta attaaaagaa cgaaaacact tgcctttaag 540  
cttgccaggt tgttctgtc tctcatgaga agagcttgga tacagtgagt ttgcacagct 600  
cagtttttac ctaaccacac acttgacagac ctncctgagg acctgcccgg gcggccgctc 660  
gaaanggcga attctgcaga tatccatcac acttggcggn cgctcgaaca tgcattctaga 720  
nggcccaatt cgnccatatg tgagtcgtat tacaattcac tggncgc 767

<210> 156  
<211> 827  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(827)  
<223> n = A,T,C or G

<400> 156  
attgggcccc tagatgcatt ctcgacggcc gccagtgtga tggatatctg cagaattcgc 60  
cctttcgagc ggccgcccgg gcaggtagct caggaggtct gcaagtgtgt ggttaggtaa 120  
aaactgagct gtgcaaactc actgtatcca agctcttctc atgagagagc agaacaacct 180  
ggcaagctta aaggcaagtg ttttcgcttct tttaattaaa taggctgtga caaaattaac 240  
aataaaacta gcccagaacc aaccagcccc gtaagtgtcg tgcaaatctt gcagtaacaa 300  
aagaccatct gagagactac acgttggtct ccagtcctag caagcgtccc attctctcca 360  
cattcttata aattgtagct tgacatgtta tctccttggc acattccata ggaaaccagc 420



ctcttttctcc	atctcgtagt	cgttccccct	cataccagcc	attggctgac	acnttgattg	480
gatgaaggcc	ancttanncc	nactngcagg	gagaagtcaa	tttgnttgnt	taaccnntna	540
atggancctt	accnanttnc	acctgggggc	aagtgagggt	tcaagtctgc	angcggttc	600
ccgctgctgt	ggccccaaag	gcaagttatn	cagcggggcc	cgcgttacct	tgggcccggg	660
accaacgcct	taangggccg	aaattttcaa	gcacacttgg	ccggcccgtt	acctagtggg	720
atnccgaact	tcgggtacct	aaagccttgg	gcgttaatca	atgggtcaat	aggcttggtt	780
tcctgggtgtg	naaaattggt	aatccggttc	acaanttccc	cacaaca		827

&lt;210&gt; 157

&lt;211&gt; 818

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(818)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 157

aacactatga	cctgatacgc	cancttggtg	ccgntcggga	tccttagtaa	cgcccgccag	60
tgtgctggaa	ttcgcccttt	cgagcgcccg	ccgggcagggt	acataatctg	gaaatttatg	120
ttacaggtat	gcataattgt	atatgaaaaa	tattaactga	gaaattactg	agcttcttag	180
caaaaaatat	aattatttca	gagatatgat	acagtttaat	atctgccttc	ctcaaaaagt	240
cagaaaaata	aaagttttta	attgcatata	ttttcatttc	ttacatatgt	cagaacactc	300
agaattttta	ataaaatggt	ttaaaacata	attataagtt	gttactttta	tttctatggt	360
tagtggaacc	cacaggggtcc	tgtatctgat	taaatggagg	atatattagg	agaatttttt	420
agaagaatga	cacatgtgac	ataccaccat	atttgcaaga	aaatataact	tgatagtaga	480
gtaagtttag	tgctttatat	gatgaattaa	aggcactagc	tcttagaaaa	aaaaggatta	540
aaatgctgac	ttcagtaata	atgtaaggag	ctctgctctt	taacatttcc	taattaggta	600
taaactatga	tgggaaggga	aggtggaatg	gaagtntcta	cntntttacca	ttggctttcn	660
ttcatgaaat	tggcaggnag	cctnccattt	cnnnaggnc	ttaatnaaaa	antttttccc	720
aacttttnt	tttcnaaaaa	nttnttnncc	nnatngnnaa	ctggnggtna	aaaccgggct	780
tttttggggg	gaaancctac	ctggntnggg	naaaaaant			818

&lt;210&gt; 158

&lt;211&gt; 772

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(772)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 158

ntgggccc	nnagcatgct	cgacggccgc	cagtgtgatg	gatatatgca	gaattcgccc	60
ttagcgtgg	cgcgcccgag	gtacttcaac	caccctcct	acaaaactct	atacccttgt	120
catattaaaa	ttgtatgtta	tgccagggtt	ccctaataca	acaaaatctc	tgaataaaac	180
ctattaaata	tacaatttct	atcaacatgc	ctgccacaca	tgcttaataa	ttgcttagtg	240
aatacaagat	taatgcatga	gtgcctaagt	tacttcact	agtataacaa	atgacaatat	300
ctcatttgtt	tcccgaagta	tccttattcc	attcaagctc	tgaagaaagt	attaatgata	360
ttcgctccta	agtaattttt	tctgcattca	aatctcacca	ttcaaagtat	tttccaacag	420
tagtttcccc	aaaagcagtt	tacacagtta	catttggtat	aatttttgaa	agaaaagtgt	480
ggaaaatttt	attaagactc	tgaatgtagc	ttactgccaa	ttcatgaaga	aagcaatgta	540
atacgtagat	acttcattcc	acctttccct	tcacatagat	ttataactaa	ttaggaaatg	600
ttaaagagca	gagctcctta	cattattact	gaagtcagca	tttatacttt	ttttcttaag	660
agctagtgcc	tttaattcat	catataaagc	agctaactta	ctctactatc	aagttatatt	720
ttcttgcaaa	tatggtggta	tgtcacatgt	gtcattcttc	taaaaaattc	tg	772

&lt;210&gt; 159

&lt;211&gt; 1024

&lt;212&gt; DNA



<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 159

ttgggnaaaa	ttttaaacgg	gcccccccaa	angncccttt	ttgggggntt	aaaccccccg	60
gnaangcccc	tttccggggg	gggaaattcc	ccccaaccct	ttaaagggtt	aaaaaccccg	120
gggcnccgg	gccccccaaa	ggtttggtt	tgggcccttt	ggggggaaaa	aattttttcc	180
gggccccccc	ntttttaaag	gcccgggttg	gggttttccc	gggcccgggg	gcccccgga	240
aaaggggttt	aaccccttn	aatttttttn	gggtttttcc	cccccaaata	gggtttccaa	300
tttttttttt	tttaaaaaac	ccaaaanggg	aaaaaaaagg	gttggcccaa	aatttaaggg	360
cctttctttc	aaaagggttt	cctttgggaa	aaaaaaacct	tgggttgggg	gaaaagggtt	420
ncccaaaaaa	ttaaaccctg	gaaaaccttc	tttgggnaac	ccactttaaa	aatttaaaant	480
taaanttaaa	tttaaattta	aanttaagga	atgggnttgg	aaaaaaaaag	gaatattccn	540
ttaatttggc	cttaattttt	taatttgntn	atttgactgg	tnatgnnttt	acttttnaaa	600
aacntnctnn	ccaaaaacca	attttaactg	gncnngtggg	atttaccntn	ttcnattacc	660
ngggaggttaa	cccaactnga	acntttngga	gggnccagtc	ctccataggg	acctccntca	720
ntnttgatnc	caactgcaag	ttcagggaaa	ttctcacatc	ccccttgggc	natatatctc	780
tttaaaagcn	cctcacagca	ctcactgaan	tctattatat	tatagatang	gtntattatg	840
ggaaaanggt	nacanttcaa	natnncccaa	cgcggggana	cacannngnc	agngcccgat	900
gatnttccna	nacacagant	ttggtgttct	ctggagncgt	ttccccnta	gnaaaatgtt	960
gacacntgga	cagagttttt	acccccaggg	gaacgtnaat	caatctttgg	aagtttcaaa	1020
tcag						1024

<210> 160

<211> 771

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(771)

<223> n = A,T,C or G

<400> 160

gggcctctnn	agcatgctcg	agcggccgcc	agtgtgatgg	atatctgcag	aattcgccct	60
ttcgagcggc	cgcccgggca	ggtactgtaa	gttattttct	tccttatctc	ccaatgacac	120
tgttttctac	atgaaaaata	ccattttggc	tttatcaaca	tgttattaat	tcataatatg	180
agagatctat	cagcactatt	tgtaaaaaata	ttcaattaaa	aaaattaaga	tgatttatag	240
ttgtgtggta	aagaatttga	ccttacccaa	aggaggctag	gcttttgccc	tcagccttaa	300
ggagataatc	ttgtcatacc	caataaaaagt	gttattttta	agtgaggctg	actacacctg	360
ataatccagc	ttgagggaca	gttatgccag	tttgaccaac	tagatgattt	agggagcttt	420
ctctcccaac	ttcaaagctg	tgatgaatca	aacaggtaat	taatcgatca	tgcttatgta	480
atgaagcctt	gattgaaact	tcaaagattg	attgacgttc	cttgggttgg	aatactctgt	540
catgtgtcaa	ttctagaagg	gtaatacgtc	ctgaggataa	cagaagctct	gtgtttggaa	600
tcacctctga	ctctgcactt	tgnttctcct	gctttggctg	attttgatct	gtaaccttta	660
cctataataa	accataacta	taatataata	gatttcagtg	agtgtgtgta	ngctttctag	720
tgattttattg	aacctaaagg	tggatgtgag	aatttntctga	acttgcagtt	g	771

<210> 161

<211> 771

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(771)

<223> n = A,T,C or G



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<400> 161
acncttgacc  tgcgcgccag  cttggtaccg  actcggaccc  tagtaacggc  cgccagtgtg      60
ctggaattcg  cccttagcgt  ggtcgcggcc  cgaggtagac  aatttattat  gaaatagctt     120
aatggcaagt  ggtaatttag  aagaattaa  ttatcagata  ggagatatat  taaaatattt     180
aaaaattgga  tatattcttg  aagccctttt  acacaagtaa  tttctataat  ttgattgtaa     240
tgaaagtata  atataccttg  ttactattat  cagattaatt  tttgaaagta  gaattcctta     300
atcaagccaa  gggtatgctg  ctttataaga  aattaatcag  gtagtttaac  actagagctc     360
attagccaac  ctgtatgtag  cacaaaataa  tcatctctga  taaataccta  taaatatatt     420
ttattcatac  ttttaaatat  ttacaattc  aaataaaaaa  cttatatgta  gacaatctgg     480
gctaaatttc  catgtatgtt  ttgaaaaata  atgttagcat  gaatagattc  atatttaaatt     540
atgattttta  atactcttaa  tagaggagac  ataagaaata  tttacataaa  agctaagtag     600
catgatacag  ctcattggtt  ttttcctcat  aggaaaacaa  ttacttgatt  tttttttgca     660
taggattaaa  gactgagtat  cttttctaca  tttctttaac  tttctaangg  gcacttctca     720
aaacacagac  caggtagtaa  atctncaact  ntctaaggct  tcacccact  t               771

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<210> 162

<211> 768

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(768)

<223> n = A,T,C or G

```

<400> 162
gggccctnn  agctgctcgn  cggccgccag  tgtgatggat  atctgcagaa  ttcgccctta      60
gcgccgccc  gggcaggtag  tacaaaaaca  gaataatttt  gaagtttttag  aataaatgta     120
atatatttc  tataattcta  aatgttttaa  tgcttttcta  aaaatgcaaa  actatgatgt     180
ttagttgctt  tttttacct  ctatgtgatt  atttttctta  attgttattt  tttataatca     240
ttatttttct  gaaccattct  tctggcctca  gaagtaggac  tgaattctac  tattgctagg     300
tgtgagaaag  tgggtggtgag  aaccttagag  cagtggagat  ttactacctg  gtctgtgttt     360
tgagaagtgc  cccttagaaa  gttaaaagaa  tgtagaaaag  atactcagtc  ttaatcctat     420
gcaaaaaaaaa  atcaagtaat  tgttttctca  tgaggaaaat  aacctgagc  tgtatcatgc     480
tacttagctt  ttatgtaaat  atttcttatg  tctcctctat  taagagtatt  taaaatcata     540
tttaaatatg  aatctattca  tgctaacatt  atttttcaaa  acatacatgg  aaatttagcc     600
cagattgtct  acatataagg  tttttatttg  aattgtaaaa  tatttaaaaag  tatgaataaa     660
atatatttat  aggtatttat  cagagatgat  tattttgtgc  tacatacagg  ttgggctaatt     720
gagctctagt  ggtaaactac  ctgataattt  cttataaagc  agcatacc               768

```

<210> 163

<211> 776

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(776)

<223> n = A,T,C or G

```

<400> 163
nantatgacc  tgatacgcca  acttggtagc  gactcggatc  cactagtaac  ggccgccagt      60
gtgctggaat  tcgcccttag  cgtggtcgcg  gccaggtagc  tcttccgcag  aggggaaggct     120
gtagaagtct  ttgcaagctt  catacagaga  aatacaaaaag  gtgtgatgcc  attaactggt     180
cctttctaaa  gcattaggaa  tttagtgaag  ctctcaaaaca  caaaactgaa  aagccatttg     240
aacaaatctc  atatacttgt  agataagctt  ttttttattt  aaagcataca  aattcaaate     300
tttcaagcag  aaaattcagt  caagtgaagc  ccattgggtg  tttgagttca  aagtcagtga     360
gcaaattgga  atcattgcgg  catctctctc  atttccctag  tggacattag  accactcaaa     420
atgtgtcaca  taatttacag  ccccttggtg  gtaattgaat  atacacgttg  agagtgcact     480
ggcagaacac  ttaagaaaga  ttgaatgcag  gaggaccagc  ttacgttatt  tttggctcta     540
ctctggtttt  tgctttttaat  gttttttctt  gagattaatt  tcaattgggt  tgttccatcc     600
tattcaaaaa  aatgctttga  gagaagagat  gaacagcagc  atcaaataaa  attgtgatatt     660

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ttagtttnag agacatcang tggtgtaatc aaataagaca gaanggccaa gttaaaatct 720  
gtgatngca taaatgaatt taactgtag aatagcanaa ttgagaggtg gattan 776

<210> 164  
<211> 773  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(773)  
<223> n = A,T,C or G

<400> 164  
cgggcctcta gatgctgctc gacggccgcc atgtgatgga tatctgcaga attcgccctt 60  
tcgagcgccg ccggggcagg tacacagtgg ataccacata ctgctctga ggaagaagga 120  
ggaggagaaa gaggagaagg aaggaaattt tcaaagaca atttctatca ggactcattt 180  
tcctattata agttcagaat acttgacgt ctttataaaa tcaagttgaa atctctacta 240  
ttttgatctg tattctctta aatattaaag gttataccta gggagattcc atgttgactg 300  
gcaaacaaag cataccattt taagaataac tcttcataaa atatgtgtct aagaattaaa 360  
agtgtctagt aacagatata caaaagagag atttagaata attaataatt aaagacagat 420  
aattttaatg tttcacactt ttaactacaa aattctttgt tttcctaaat attgcaaaa 480  
atgttatata ttaaaataaa tcttgaaaat ctccacctac atttagataa tagttcaaaa 540  
gtcatattgc taatctacct ctcaattctg ctattcttac agcttaaatt catttatggc 600  
aatcacaga ttttactttg tccttctgtc ttatttgatt acaacacctg atgtctctga 660  
aactaaatat ccaatttatt tgatgctgct gttcatctct tctctcaaag cattngttg 720  
aatangatgg aacaacccaa ttgaaattaa tctcaaggaa aaacattaaa ant 773

<210> 165  
<211> 783  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(783)  
<223> n = A,T,C or G

<400> 165  
tnnnnnacac tatgacctga ttacgccanc ttggtaccga ctgggatcca ctagtaacgg 60  
ccgccagtgt gctggaattc gcccttagcg tggctcgggc cgagggtacag taggaaaata 120  
agaataacaa cgggcaaaat ctttttagaa catttatgct ttatctgttt tagcttctaa 180  
aacaatcctg aaggatgaat aattatcatg agtatagcag aatttaattt tccctgttgc 240  
tccaaaattt taatgaaaac tttacggttg agagaaatag gtaaaataaaa aaacttccta 300  
aaattctaaa gacaattgtt gaataaaatt taagtgaatg agtttgtgct tcatatttaa 360  
cttttaactt tccaataggc tttattaaat ggaaaactga aatttacaaa gtcttagagt 420  
agaagcattt ttatcctggc tagggattct ctaagagaac cagtagcacc aagatgcact 480  
ggaacagtgc aacgagagag ttcatgcctt agggtttaga agcatacaag caaaggggaat 540  
ggtgcccact tcttactaga aaaatttcac aggcctggagt ctgggcggag gagcctggga 600  
tgacagtaga agtgtgcagg aagcactaag tctagcctgt acctgcccgg gcggccgctc 660  
gaaaggcgaa ttctgcagat atncatcaca ctggccggcc gntcgagcat gcatntagag 720  
ggcccaattc gcctatagtg ancgtattac aattcactgg ccgcgtttta caacgtnnng 780  
cnn 783

<210> 166  
<211> 775  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(775)



<223> n = A,T,C or G

<400> 166

attgggcctc	tnnagcatgc	tcgagcggcc	gccagtggtga	tggatatctg	cagaattcgc	60
ccttcgagcg	gccgccggg	caggtacagg	ctagacttag	tgcttcctgc	acacttctac	120
tgatcatcca	ggctcctccg	cccagactcc	agcctgtgaa	atctttctag	taagaagtgg	180
gcaccattcc	ctttgcttgt	atgcttctaa	accctaaggc	atgaactctc	tcgttgcaat	240
gttcagtg	atcttggtgc	tactggttct	cttagagaat	ccctagccag	gataaaaatg	300
cttctactct	aagactttgt	aaatctcagt	tttccattta	ataaagccta	ttggaaagt	360
aaaagttaaa	tatgaagcac	aaactcattc	acttaaattt	tattcaacaa	ttgtcttttag	420
aatttttagga	agttttttta	tttacctatt	tctctcaacc	gtaaagtttt	cattaaaaatt	480
ttggagcaac	agggaaaatt	aaattctgct	atactcatga	taattattca	tccttcagga	540
ttgttttaga	agctaaaaca	gataaagcat	aaatgttcta	aaaagatttt	gcccggtgtt	600
attcttattt	tcctactgna	cctcggccgc	gaccacgcta	agggcggaatt	ccagcacact	660
ggcgccggtt	actagtggat	ccgagctcgg	taccaanctt	ggcgtaatca	tggtcatagc	720
tggttcctgt	gtgaaantgt	atccgntcac	aattcacaca	acatacganc	cggag	775

<210> 167

<211> 797

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(797)

<223> n = A,T,C or G

<400> 167

ttgnaacnat	tntgacctga	ttacgccaac	ttggtaccga	gctcggatcc	actagtaacg	60
gccgccagtg	tgctggaatt	cgcccttagc	gtgggtcgcg	ccgaggtact	ttcagaaggt	120
aatcagtag	atcacccatg	tgtatctgca	ccttctcaac	tgagagaaga	accacagttg	180
aaacctgctt	ttatcatttt	caagatgggt	atctttagaa	ggcgaggaaac	caattatgct	240
tgtattcata	agtattactc	taaattgttt	gtttttgtaa	ttctgactaa	gaccttttaa	300
ccatgggttag	ttgctagtac	ccttccttgt	ccgaaggagc	tgaccagtat	tgatgagaga	360
gtccaggcag	ctcctgaagt	tcagctggta	gtttgttctc	tgaacatttg	gtctcttgaa	420
ggcacagtat	atctggggct	tcttccttta	cccaatctaa	tcctttcttc	ttaatccagg	480
ctcgaagccc	atncacattc	caagagcaga	tcttgagtg	ggcagggttg	ccactgggtg	540
agggtttctg	atctgggggg	tcctcataca	gggctggggc	cctntcctgc	tgccctcttg	600
tcattttctt	tgccggccgt	cttactcttc	ttggcctctg	gcttctgtcc	tgagctcatc	660
cccgtctttc	ggccaccngt	tccccttttt	tacacgcctt	cggcatttcc	cgttaccgaa	720
cgcccttttg	gcagctgtac	ctgccccngg	cggccgttcg	aaaaggccna	attcttgtag	780
aatttccatc	ncaccnn					797

<210> 168

<211> 780

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(780)

<223> n = A,T,C or G

<400> 168

acantatgac	ctgatacgcc	aacttggtac	cgactcggat	ccactagtaa	cggccgccag	60
tgtgctggaa	ttcgccctta	gcgtgggtcg	ggccgaggta	ctccggtcgg	tgtagcagc	120
acgcggcatt	gaacattgca	atgtggagcc	caaaccacag	aaaatgggg	gaaattggcc	180
aactttctat	taacttatgt	tggaattttt	gccaccaaca	gtaagctggc	ccttctaata	240
aaagaaaatt	gaaaggtttc	tcactaaacg	gaattaagta	gtggagtcaa	gagactccca	300
ggcctcagcg	tacctgcccc	ggcgcccgct	cgaaagggcg	aattctgcag	atatccatca	360
cactggcgcc	cgctcgagca	tgcatctaga	gggccaatt	cgccctatag	tgagtcgtat	420
tacaattcac	tgcccgctcg	tttacaacgt	cgtgactggg	aaaaccctgg	cgttacccaa	480



cttaatcgcc	ttgcagcaca	tccccctttc	gccagctggc	gtaatagcga	agaggccccgc	540
accgatcgcc	cttcccaaca	gttgcgccgc	ctgaatggcg	aatggacgcg	ccctgtaacg	600
gcgcattaag	cgcggcgggt	gtgggtggta	cgcgccagcg	gacccgtaca	cttgccagcg	660
ccctancgcc	cgctnctttc	gctttcttcc	ctttctttct	tngcacgttc	gccggctttt	720
cccgtaagc	tctaaatcgg	gggctccttt	tanggttccg	atttantgct	ttacngnacn	780

&lt;210&gt; 169

&lt;211&gt; 771

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(771)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 169

gggcnctng	agcatgctcg	acggcccgcca	tgtgatggat	atctgcagaa	ttcgcccttt	60
cgagcggccg	cccgggcagg	tacgctgagg	cctgggagtc	tcttgactcc	actacttaat	120
tccgtttagt	gagaaacctt	tcaattttct	tttattagaa	gggccagctt	actgttggtg	180
gcaaaattgc	caacataagt	taatagaaa	ttggccaatt	tcacccatt	ttctgtggtt	240
tgggctccac	attgcaatgt	tcaatgccgc	gtgctgctga	caccgaccgg	agtacctcgg	300
ccgcgaccac	gctaagggcg	aattccagca	cactggcggc	cgttactagt	ggatccgagc	360
tcggtaccaa	gcttggcgta	atcatgggtca	tagctgtttc	ctgtgtgaaa	ttgttatccg	420
ctcacaattc	cacacaacat	acgagccgga	agcataaagt	gtaaagcctg	gggtgcctaa	480
tgagtgaagt	aactcacatt	aattgcgttg	cgctcactgc	ccgctttcca	gtcgggaaac	540
ctgtcgtgcc	agctgcatta	atgaatcggc	caacgcgcgg	ggagaggcgg	tttgcgattt	600
gggcgtctct	cgcttntctc	gctcactgac	tcgctgcgct	cggtcggttcn	gctgcggcga	660
gcggtatcaa	gctactcaaa	ggcngtaata	ccgntatcca	cagaatcagg	ggataacgca	720
ggaaagaaca	ttgtgagcaa	aaggcancaa	aagggcagga	accgtaaaaa	n	771

&lt;210&gt; 170

&lt;211&gt; 777

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(777)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 170

acacttgacc	tgatacgcca	acttggtacc	gagctcggac	cactagtaac	ggccgcccagt	60
gtgctggaat	tcgcccttag	cgtggtcgcg	gccgaggtag	acagaatagc	tgagcagttc	120
acttcaggga	tcagggtcatc	tctgtctctc	ctagtttcac	catgttctgg	caataaaaaa	180
cacatattat	atcctggttt	tctctatcct	tgcattacta	aggtgactgt	ctctctttat	240
acatccttgt	atggttctcc	cagtattagc	aagattgtat	atctgtaaa	aatgtccagt	300
tttgtaaata	tttccttgcc	tttttttttc	ttttttttta	tctgatttta	atgcttcgtt	360
aacttcaaaa	ggaactggta	gagttcagaa	ggtagctgt	tgtttttcta	aacctcttcc	420
caggaagggg	acattgacac	ttgaattttt	gtcacctttt	tcctcattag	aaggaaagta	480
gaaagcctta	ctgtaggatt	tttaaaaaaa	aatccatctc	accccatatt	ggctcttaaat	540
aagtatagac	taattaacct	aagctacctt	taacaacgta	gaatttagat	gggttcatat	600
atgtgagaaa	aacctgaata	taggacaggg	gtcctacttt	tttccccacc	tctgtcgccc	660
aggctagagt	atagtgggtg	gatcttggcc	cactgnaacc	tctgtctcct	anggtcaagt	720
gattcttctc	gcctcacctt	ccaagtagct	gggattggaa	gaatatgccn	ccccccg	777

&lt;210&gt; 171

&lt;211&gt; 782

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;



<221> misc\_feature  
 <222> (1)...(782)  
 <223> n = A,T,C or G

<400> 171  
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 ttctgagcgg ccgcccgggc aggtactttt tttttttttt tttttttttt tttaattaat 120  
 tagaaagtag gctgggcacg gtggctcatg cctataatcc cagcacttgg ggaggccgag 180  
 gatctcctct ctggtggatc acttgagggc aggagttaag agaccatcct ggccaacatg 240  
 atgaaacctt gtctctacta aaaatacaaa aagtagctgg gcgtgggtggc atactcttac 300  
 aatcccagct acttgggagg ctgaggcagg agaatcactt gaacctagga agcagagggtt 360  
 gcagtgggccc aagatcacac cactatactc tagcctgggc gacagagggtg gggaaaaaag 420  
 taggacctct gtcctatatt cagggttttc tcacatatat gaacctatct aaattctacg 480  
 ttgttaaagg tagcttaggt taattagtct atacttattt aagaccaata tggggtgaga 540  
 tggatttttt tttaaaaatc ctacagtaag gctttctact ttccttctaa tgaggaaaaa 600  
 ggtgacaaaa attcaagtgt caatgtcccc ttcttgggaa gaggtttaga aaaacaacag 660  
 ctcaccttct gaactctacc agttcctttt tgaaagttaa ccgaagcatt aaaatcagat 720  
 gttaaaaaag aaaaaaaaaa ggcngggaaa atattttacaa aactgggaca ttctttacag 780  
 an 782

<210> 172  
 <211> 773  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(773)  
 <223> n = A,T,C or G

<400> 172  
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 gctggaattc gccctttcga gcggccgccc gggcaggtag catcctgtgg ctctttaagg 120  
 aggtcttctc cttaattctt ccatgaggca tccagggtgg tctgggctat gggaagaacc 180  
 cttcaacttg ggagtagaca ggtgctccaa ttcatagtgc ccattctcag aggccttgtg 240  
 tgtgagtttc tccttcctgc ctctcttctg gctcttcttg tgctocataa tctgctggag 300  
 ctggtgcccc gcatagtctg gcttgggtgg cagcgggcca gccggcacag ctacaccaag 360  
 gacatctgac accatgtagg ggcgcagcca gccaccaag ggagtgttc cggggctgta 420  
 gtgggtctgt ttgtggtaga agagaagtcc atctacctca aaagggaat ccatagatag 480  
 cacatcacac aggttttcgg gagtgcagg gaagtctttt agccccacaa atttaaaagg 540  
 attaaagctg gttttctctc ccagtccttc ttcttctggt aactttgaat gcatccagta 600  
 gaatcggaat tcaagtctgg caatcataaa aagggtgtcc ccgccagcac atcacattca 660  
 gaacgtagta ggtctgggtt acctcattgt aaatgcaatc tagaatggtg taagcttttg 720  
 ctgntgaagt ttccctgtgc ctctggcaga atgaagaaan ctggtgacac aac 773

<210> 173  
 <211> 772  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(772)  
 <223> n = A,T,C or G

<400> 173  
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 ggaactgcag aaatccaagc ggctggatta tgtgaaccat gccagaagac tggctgaaga 180  
 tgactggaca gggatggaga gtgaggaaga aaaataagaa agatgatgaa gaaatggaca 240  
 ttgacactgt caagaagtta ccaaaacact atgctaatac attgatgctt tctgagtggt 300  
 taattgacgt tccttcagat ttggggcagg aatggattgt ggtcgtgtgc cctgttggaa 360



aaagagccct	tatcgtggcc	tccaggggtt	ctaccagtgc	ctacaccaag	agtggctact	420
gtgtcaacag	gttttcttca	cttctgccag	gaggcaacag	gcgaaaactca	acagcaaaag	480
actacaccat	tctagattgc	atttacaatg	aggtaaacca	gacctactac	gttctggatg	540
tgatgtgctg	gcggggacac	cctttttatg	attgccagac	tgattttccga	ttctactgga	600
tgcattcaaa	gttaccagaa	gaagaaggac	tgggagagaa	aaccaagctt	aatcctttta	660
aattttgtggg	gctaaagaac	ttcccttgca	ctcccgaag	cctgtgtgat	gtgctatcta	720
tggatttctt	tttgaggtag	atggacttct	cttctaccac	aaacagaccc	ac	772

&lt;210&gt; 174

&lt;211&gt; 780

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(780)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 174

acactatgac	ctgatacgcc	aagcttggtg	ccgagctcgg	atccactagt	aacggccgcc	60
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catacaaaag	agagaaaaaa	acaaagacat	gtggcgggtg	gcgaggggag	gccaatccc	180
aacaccctac	aaggttccat	ggaatggaga	aggaacaaaa	aaatcccaa	ttattttggg	240
gtaagatgtg	ccccagaaaa	ggtgaaatct	atgcaataaa	accagggttt	tcttcaaadc	300
tagcatctag	gatttctatc	agagtttcaa	ataatcagaa	tttctatcag	aatttctacc	360
ctgaggtgac	acctactaac	tgtagggtct	ttcattaaaa	atgaagacat	ctttcaccag	420
aatgtatcaa	gctataaaac	tggcttcaga	gcctacactt	agccagagtg	gaaaaaaaat	480
agtgcataat	ttcgacagca	attttgaatt	gatgcttgag	gtctcaatcc	accagcacc	540
agatatcatg	ttacctccct	cagttgaata	caagttaaaa	tgatgatctt	atcgagatct	600
caatagagca	cagtgccttt	catgtttcgg	gtaagaaggt	gggaggagga	atgaagccgg	660
gtattacacc	cagcccaatg	acagcttaag	ccttaacatg	cnggcattct	acaatgacca	720
taaacaaggg	angggccaag	canggcctngc	gatcattact	ttgcgcacag	aatgccatgt	780

&lt;210&gt; 175

&lt;211&gt; 771

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(771)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 175

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tcgagcggcc	gccgggcagg	tactaaaaca	gctttgctta	tgttggccag	gggaaaacat	120
ggcattctgt	gcgcaaagct	aatgatcgcc	agccctgect	tgcccccctc	cttgtttatg	180
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ttttttccac	tctgggctaag	tgtaggctct	gaagccagtt	ttatagcttg	atacattctg	480
gtgaaagatg	tcttcatttt	taatgaaaga	acctacagtt	agtaggtgtc	acctcagggt	540
agaaattctg	atagaaatcc	tgattatttg	aaactctgat	agaaatccta	gatgctagat	600
ttgaagaaaa	cctgggtttt	attgcataga	tttcaccttt	tctggggcac	atcttacc	660
aaaataattg	gggatttttt	tgntccttct	ccattccatg	gaaccttgta	gggtgtttgg	720
gattgggcct	tccctngcca	cccgccacat	gtctttgggt	ttttctctct	t	771

&lt;210&gt; 176

&lt;211&gt; 773

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien



<220>  
 <221> misc\_feature  
 <222> (1) ... (773)  
 <223> n = A,T,C or G

<400> 176  
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 cttagcgtgg tcgcggccga ggtactcatg tatttttttt tttttccaga tctctttccc 120  
 caagttgcta ttgtaagagt attctgctgc gtgtggatgc agttatacac attaaagcag 180  
 atctggagtc tgaagtagct ataaagcagc tataaaacag aaatacatgc atagctgcag 240  
 aaaccatgat aggtagagga cttttctttt ggttttggtt tgttttggtt tgttttggtt 300  
 ttggttttac agagaagaga tttttattac aaagaaaaaa attccagtga attgtgcaga 360  
 aatgctgggt tttacaccat cctaaagaaa aactttacaa gggtgttttg gagtagaaaa 420  
 aaggttataa agttggaatc ttaaattgta aaattaacca ttgagtgtca aagttctaaa 480  
 agcagaactc attttgtgca atgaacataa ggaaagacta ctgtataggt tttttttttc 540  
 tccttttaaa tgaagaaaag ctttgcttaa gggttgcata cttttattgg agtaaatctg 600  
 aatgataccta ctccttttga gtaaaactag tgcttaccag tttccaattg tatttagctt 660  
 ctggttgga tttgaaaaaa aaagaaaaaa agaaaaagaa aacctaaata aaataggtga 720  
 aagttccctg actattcagg tgaatacnca aaaanaaaan nnnnnnaann nnt 773

<210> 177  
 <211> 772  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (772)  
 <223> n = A,T,C or G

<400> 177  
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 caacgggcaa aatcttttta gaacatttat gctttatctg ttttagcttc taaaacaatc 180  
 ctgaaggatg aataattatc atgagtatag cagaatttaa tttccctgt tgctccaaaa 240  
 ttttaatgaa aactttacgg ttgagagaaa taggtaaata aaaaaacttc ctaaaattct 300  
 aaagacaatt gttgaataaa atttaagtga atgagtttgt gcttcattat taacttttaa 360  
 ctttccaata ggctttatta aatggaaaac tgaaatttac aaagtcttag agtagaagca 420  
 tttttatcct ggctagggat tctctaagag aaccagtagc accaagatgc actggaacag 480  
 tgcaacgaga gagttcatgc cttanggttt agaagcatac aagcaaaggg aatggtgccc 540  
 acttcttact agaaaaatct cacaggctgg agtctgggag gaggagcctg ggatgacagt 600  
 agaagtgtgc aggaagcact aagtctagcc tgtacctgcc cgggcggncg ctggaagggc 660  
 gaattctgca gatatccatc acactggcgg ccgctcgagc atgctctana ggcccgaatt 720  
 cgccctatag tgagtcggat tacanttnaa tggccgncgt ttacaacgt cc 772

<210> 178  
 <211> 770  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (770)  
 <223> n = A,T,C or G

<400> 178  
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 tgtcatccca ggctcctccg ccagactcc agcctgtgaa atttttctag taagaagtgg 180  
 gcaccattcc ctttgcttgt atgcttctaa accctaaggc atgaactctc tcgttgcaat 240  
 gttccagtgc atcttggtgc tactggttct cttagagaat ccctagccag gataaaaatg 300



cttctactct	aagactttgt	aaatttcagt	tttccattta	ataaagccta	ttggaaagtt	360
aaaagttaaa	tatgaagcac	aaactcattc	acttaaattt	tattcaacaa	ttgtcttttag	420
aatttttagga	agttttttta	tttacctatt	tctctcaacc	gtaaagtttt	cattaaaatt	480
ttggagcaac	agggaaaatt	aaattctgct	atactcatga	taattattca	tccttcanga	540
ttgttttaga	agctaaaaca	gataaagcat	aaatgttcta	aaaagatttt	gcccgttggt	600
attcttattt	tcctactgta	cctcggccgn	gaccacgcta	agggcggaatt	ccagcacact	660
ggcgccgnt	actagtggat	ccgagctcgg	tacccaanct	tggcgtaatc	atggncatag	720
ctgttcctgn	gngaaatngn	natnecnntna	caattnccac	acatacnann		770

&lt;210&gt; 179

&lt;211&gt; 502

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (502)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 179

cnnnttgacn	tgattcgcca	acttggtacc	gagctcggat	ccctagtaac	ggccgccagt	60
gtgctggaat	tcgcccttag	cgtggctcgg	gccgaggtag	ctggccccc	acttctcgaa	120
taaaatgaaa	ctatgattct	tggcctcact	cactaccatg	tgacattgat	caaatacatt	180
cacctctcca	aacctcagag	tctttatctg	taagatggaa	aaagtaacac	ctacttcagg	240
ggctgtcatg	aggattaaat	aaatgtgccc	agcaggtagt	aagtatacaa	cacaaagcat	300
ctaattggttc	attcatatcat	ttgcttattt	tgcaattatt	ggccacctgc	caatgttggg	360
cactgttcta	ggcacagggg	atacagcaag	ggcaaacacc	taactactgg	tggagggaag	420
acgataaaca	aatacgtaaa	gatttgtgcc	aggtagtgtat	aaaagcaaag	aatgactcat	480
ggagagggtc	agctggggag	ac				502

&lt;210&gt; 180

&lt;211&gt; 823

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (823)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 180

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ccagtagtta	gggtgttgcc	cttgctgtat	cccctgtgcc	tagaacagt	cccaacattg	240
gcagggtggc	aataattgca	aaataagcaa	atgtatgaat	gaaccattag	atgctttgtg	300
ttgtatactt	actacctgct	gggcacattt	atttaatcct	catgacagcc	cctgaagtag	360
gtgttacttt	ttccatctta	cagataaaga	ctctgaggtt	tggagagggtg	aagtgatttg	420
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tggggggccag	gtacctcggc	cgcgaccacg	ctaaggcgca	attccagcac	actggcggcc	540
gttactagt	gatccgagct	cggtaaccaag	cttggcgtaa	tcattggtcat	agctgtttcc	600
tgtgtgaaat	tgttatccgc	tcacaattcc	acacaacata	cgagccggaa	gcataaagt	660
taaagcctgg	ggcgccctaat	gagtgagcta	actcacatta	attgcgttgc	gctcactgcc	720
cgcttttcag	tcgggaaacc	tgctgtgcca	gctgcattaa	tgaatcggcc	aacgcgcggg	780
gaaaagcngn	ttgcgtattg	gggcgctctt	ncgctttctt	gc		823

&lt;210&gt; 181

&lt;211&gt; 501

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;



<221> misc\_feature  
 <222> (1)...(501)  
 <223> n = A,T,C or G

<400> 181  
 cantatgaacn tgattcgcca acttgggtacc ngetcggatc cctagtaacg gncgccattg 60  
 tncctggaatn cgncccttagc gtggctcgcg ccgagggtact ttcttcnttt nctnnaattt 120  
 tccataacct agtgccngnt tgatnccctc acatggntgg ttcacatncn cngtacagan 180  
 gnccggnac catggganag ggcagcactc ntnccttctn angggatcctt ggcctaangg 240  
 tgtacnaagg gagangattg antntcttct gncctcncta nggcctaggg aaccagnag 300  
 canatcccac nacnccttcn atnttttnagc caaggagaag ccccttggtg acnttnagtt 360  
 ccaaccatta tacncagtgn gagaatggat nntcctggtc ccaaccatta cagggtgaag 420  
 atatnaacag ttaaggaaga tacagtttng atgaggcctc anganggagc agtnacacc 480  
 atcatannca tatgcaggga a 501

<210> 182  
 <211> 830  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(830)  
 <223> n = A,T,C or G

<400> 182  
 ggcccttnga ngcatgctcg acggccgcca tgtgatggat atctgcagaa ttcgcccttt 60  
 cgagcggcgg cccgggaggg tacacgagaa gtcctcgagg tggctgaagt ccaacgtctc 120  
 tgatgcgggtg gctcagagca cccgtatcat ttatggaggc tctgtgactg gggcaacctg 180  
 caaggagctg gccagccagc ctgatgtgga tggcttcctt gtgggtgggtg cttccctcaa 240  
 gcccgaattc gtggacatca tcaatgccaa acaatgagcc ccatccatct tccctaccct 300  
 tccctgccaag ccagggaacta agcagcccgag aagcccagta actgcccttt ccctgcatat 360  
 gcttctgatg gtgtcatctg ctcttctctg tggcctcatc caaactgtat cttcctttac 420  
 tgttttatatc ttcaccctgt aatgggttggg accaggccaa tcccttctcc acttactata 480  
 atggttgga ctaaacgtca ccaaggtggc ttctccttgg ctgagagatg gaaggcgtgg 540  
 tgggatttgc tcttgggttc cctaggccct agtgagggca gaagagaaac catcctctcc 600  
 cttcttacac cgtgaggcca agatccccctc agaangcang agtgcttgcc cttcccatgg 660  
 tgcccggtgcc tcttgtgctg ngatgtgaa ccaccccatg tgagggaata aacctggcac 720  
 tangtctttg aaaaaaanaa aaacntnaaa aaaantccct tcggccgnga ccacgctaag 780  
 gnccaattcc ancacaatgg gcgnncgtna ctantggatc caaccttnt 830

<210> 183  
 <211> 484  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(484)  
 <223> n = A,T,C or G

<400> 183  
 ttgacatgat acccaacttg taccgagctc ggatccacta gtaacggccg ccagtgtgct 60  
 ggaattcgcc ctttcnagcg gccgcccggg caggtacccc agcccgcgcc actgagtttg 120  
 cttctatccc gggatatccg ggaacctacc agcctatggc cagttacctg gacgtgtctg 180  
 tgggtgcagac tctgggtgct cctggagaac cgcgacatga ctccctgttg cctgtgggca 240  
 gttaccagtc ttgggctctc gctgggtggc ggaacagcca gatgtgttgc cagggagaac 300  
 agaaccacc angtcctttt ttggaaggca gcatttgcag acttcaacgg gcaaaacctc 360  
 tgacgcctgc gcctttcgct gcggnccgag aaaccatttc gnactttaan attgaatctt 420  
 ctctaagggtt ganaatttct ggatcccttg anaactttta canntgnnct ttantcctt 480  
 taaa 484



<210> 184  
<211> 824  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(824)  
<223> n = A,T,C or G

<400> 184  
ggccttagag ctgctcgacg gccgccatgt gatggatatc tgcagaattc gcccttagcg 60  
tggtcgcggc cgaggtacca gattggccac tctagggtag aacaccaggt agattcctaa 120  
ggttcctgac tccaggccct ggctcccagt tggcatctct ggacctactt ggggtcacag 180  
tgaactcact gccctgaagg gaagatgcct ggctggatat gccacctgct gattggagag 240  
tccttggacc ttgagtgaac acaggtggta gccaggcagt gatcatcata ggccttgggt 300  
gagccccagt gctgtgttgg cttcaggtct gacacagagc tgtcccagtg gtagtcgcca 360  
caggggtgct tgtgtcatca tcccttctcc agctccaggc agctcagcac agagacatag 420  
tgtccatttg tttgagtga aagtaaaagaa gagaacaaga gtctccacct agtaatccag 480  
ggaattctcc cagatcttac ccaagacaac caaggcaaga gacacagcat tactgggctg 540  
gaggtgcccc ctaatgcagg tatggctgca gtgaacaaag acttagatca caacacccaa 600  
atcccttcta atagttggaa agccttncca agaaggatgc cggacaaaca agcccaaact 660  
gtgaagacta caacaaatac ctaactcttt caatgcccag aactgaaga atatcccaa 720  
ctttaagacc atccatgaaa acatgacctt accaacaagc taaataagac accagtgacc 780  
aatcccagag agatagagat atgtgtcctt tcnnacagag aatt 824

<210> 185  
<211> 499  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(499)  
<223> n = A,T,C or G

<400> 185  
cacttgacnt gatacgccaa cttgtaccga ctcggatcca ctagtaacgg ccgccagtgt 60  
gctggaattc gcccttagcg tggtcgcggc cgaggtactt tttctttttt nttntatttt 120  
tttttttcgt ctccccaag ctttatctgt cttgactttt taaaaaagtt tgggggcaga 180  
ttctgaattg gctaaaagac atgcattttt aaaactagca actcttattt ctttccttta 240  
aaaatacata gcattaaac ccaaatccta tttaaagccc tgacagcttg agaaggtcac 300  
tactgcattt ataggacct ctgggtggtt tgctgttacg tttgaagtct gacaatcctt 360  
gagaatcttt gcatgcagag gaggtgaagag gtattggatt ttcacagagg aagaacacag 420  
ccgcanaatg aagggccagg cttactgagc tgccaatgga gggctcatgg gtgggacatg 480  
gnaaagaagg cacctagcc 499

<210> 186  
<211> 504  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(504)  
<223> n = A,T,C or G

<400> 186  
cacttgacnt gatacgccaa cttggtaccg agctcggatc ctagtaacg gccgccagt 60  
tgctggaatt cgcccttagc gtggtcgcgg ccgaggtacc tcaggaggtc tgcaagtgtg 120  
tggttaggta aaaactganc tgtgcaaact cactgtatcc aagctcttct catgagagag 180  
cggaacaacc tggcaagctt aaaggcaagt gttttcgttc ttttaattaa ataggctgtg 240



acaaaattaa	caataaaaact	agcccagaac	caaccagccc	ggtaagtgtc	gtgcaaattct	300
tgcagtaaca	aaagaccatc	tgagagacta	cacgttggtc	tccagtccta	gcaagcgtcc	360
cattctctnc	acattcttat	caattgtagc	ttgacatgtt	atctccttgg	cacattccat	420
aggaaaccag	cctctttctn	catctcgtag	tcgntccccc	ttataaccagc	catcgctgac	480
acgtttgata	gatgaagacg	acgt				504

&lt;210&gt; 187

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(822)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 187

gggcctctna	gctgctcgnc	ggccgccatg	tgatggatat	ctgcagaatt	cgccctttcg	60
agcgggcgcc	cgggcaggtg	cgcggggact	gggtttttct	ccttttgtag	ccttttcctt	120
tagtctcctc	ttcccgggtg	ttggtaaaaa	gaggtgaatt	gacagcctat	gttgaagaca	180
ctgtgctttt	ctcaagaagg	acatccaaac	agcaagtcta	cttctttctc	tttaacgatg	240
tgctcattat	caccaagaag	aagagtgaag	aaagttaaca	cgtcaatgat	tattccttaa	300
gagatcagct	attggtggaa	tcttgtagac	atgaagagct	taattcttct	ccagggaaga	360
acagctccac	aatgctctat	tcaagacaga	gctctgccag	tcacctcttt	actctgacag	420
tccttagtaa	ccacgcgaat	gagaaaagtg	agatgctact	aggagctgag	acgcagagcg	480
agcgagcccg	ctggataact	gccctgggac	acagcagcgg	gaagccgcct	gcagaccgaa	540
cctcactgac	ccaggtggaa	atcgttaggt	catttactgc	taagcagcca	gatgaactct	600
ccctgcaggt	ggctgacgtc	gtcctcatct	atcaacgtgt	cagcgatggc	tggtatgagg	660
gggaacgact	acgagatgga	gaaagaagct	ggtttcctat	ggaatgtgcc	aaggagataa	720
catgtcaagc	tacaattgat	aagaatgtgg	agagaatggg	accttgctag	gactggagac	780
caacgtgtag	tctctcaaan	gncttttgg	actgcaagat	tg		822

&lt;210&gt; 188

&lt;211&gt; 504

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(504)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 188

tatgancatg	atacgccaac	ttgggtaccga	gctcggatcc	actagtaacg	gcccgcaggt	60
gtgctggaat	tcgcccttag	cgtgggtcgcg	gccgagggtac	caaaaaagta	aacattgata	120
atatggcctg	acaacaatca	gatatgctaa	gctctagaag	caaaagcaag	gtaggattgc	180
ctccaaatgt	tgacagggtat	tagccatacc	acagtaacta	gatctaattgt	gaggggctaaa	240
tgccctggaga	ggcagaaccc	taaaggatgc	ttagttatag	ctccatgctg	ccgccgagtg	300
gcttgatgct	ccattacacc	ctccttggat	ccaaccttcc	attaaggctg	aaggctctag	360
agggcagagt	attcaagatg	ttagatctgg	tccaagccca	aattctagag	ttaaaagcag	420
aggggttctt	agtggctgaa	aaaaaaciaa	acctgatgac	atttgggact	ccagttttga	480
ggaaaggctc	tgatgatgag	gctt				504

&lt;210&gt; 189

&lt;211&gt; 842

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(842)

&lt;223&gt; n = A,T,C or G



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<400> 189
nnnnnnnnntt tttgaaccgg cccntntnang catgctcgac ggccgccatg tgatggatat      60
ctgcagaatt cgccctttcg agcgggccgcc cgggcaggta cccttctcgc ttttgccatt      120
agccaaggat agaagctgca gtggtattaa ttttgatata atctttcaaa ccagcttcat      180
gtggcttccc ttttctttgt tcaagatgag ggccaggagg ggaaacatca cacctgccct      240
aaaccctgtt cctggaggtc agcatttgat ctgttgcaag cccctcttct tgtccctctt      300
tcctaccctg cctcccatga ctttgctcct cacacttttg gaaccatgcc ttccgggggg      360
gcccattctt tctggccgct cttgtctctg ggccacttgg agtgtgtgat aaatcagtc      420
agctgttgaa gtctcaggag tctctggtag cctgcagaag taagcctcat catcagagcc      480
tttccctcaa actggagtc caaatgtcat cagggtttgt tttttttcag ccactaagaa      540
ccctctgct ttttaactcta gaatttgggc ttggaccaga tctaactct tgaatactct      600
gccctctaga gccttcagcc ttaatggaag gttggatcca aggagggtgt aatggagcat      660
caagccactc ggcggcagca tggagctata actaagcatc ctttaggggt ctgcctctcc      720
aggcatttag cccctacatt agatctagtt actgtggtat ggctaatacc tgtcaacatt      780
tggaggcaat cctaccttgc ttttgcttct agagcttagc atatctgatg gttgcaggcc      840
cg                                                    842

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<210> 190

<211> 503

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(503)

<223> n = A,T,C or G

```

<400> 190
actatgacct gattacgcca agcttggtac cgagctcgga tccctagtaa cggccgccag      60
tgtgctggaa ttcgcccttt cgagcgggccg cccgggcagg taccatgctg acttcttggt      120
atcttttaag gcctaatttt cccttccttg agattactgt agtgtgttcc agctaatttc      180
tatttggaag cgagttggaa cagctgaaaa ctaggattta ttgaaggcaa agcagcctca      240
cgtcagtttt ttatcagctc atttggggaag tttttttttt ttttttttaa ttaattagaa      300
agtaggctgg acacggtggc tcatgcctat aatcccagca cttggggagg ccgaggatct      360
cctctctggt ggatcacttg agggcaggag ttaagagacc atcctggcca acatgatgaa      420
accctgtctc tactaaaaat acaaaaaagta nctgggcgtg gtggcatact cttacaatcc      480
cagctacttg ggaggctgag gca                                                    503

```

<210> 191

<211> 829

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(829)

<223> n = A,T,C or G

```

<400> 191
gggcctctga gcatgctcga cggccgccat gtgatggata tctgcagaat tcgcccttag      60
cgtggctcgc gccgaggtag tttttttttt tcttttttta catctgattt taatgcttcg      120
ttaacttcaa aaggaactgg tagagtccag aaggtagact gttgtttttc taaacctctt      180
cccaggaagg ggacattgac acttgaattt ttgtcacctt ttctctcatt agaaggaaag      240
tagaaagcct tactgtagga tttttaaaaa aaaatccatc tcaccccata ttggtcttaa      300
ataagtatag actaattaac ctaagctacc ttttaacaac tagaatttag atgggttcat      360
atatgtgaga aaaacctgaa tataggacag gggtcctact tttttcccca cctctgtcgc      420
ccaggctaga gtatagtggg gtgatcttgg cccactgcaa cctctgcttc ctaggttcaa      480
gtgattcttc tgcctcagcc tcccaagtag ctgggattgt aagagtatgc caccacgccc      540
agctactttt tgtattttta gttagacag ggtttcatca tgttggccag gatggtctct      600
taactcctgc cctcaagtga tccaccagag aggagatcct cggcctnccc aagtgtctgg      660
attataggca tgagccaccg tgtccagcct acttttcta taattaaaaa aaaaaaaaaa      720

```



aaactttcca aatgagctga taaaaaactg acgtgaggct gctttgcctt caataatacc 780  
tagttttcag ctgtccaact cgtttccaaa tagaaattaa gctggggang 829

<210> 192  
<211> 503  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(503)  
<223> n = A,T,C or G

<400> 192  
ntatgaccat gattacgcca agcttggtac ccgagctcgg atccactagt aacggccgcc 60  
agtgtgctgg aattcgccct ttcgagcggc cgcccgggca ggtactgcct ttgggcttct 120  
tctctctcct gttttctcct ctggaattct ttactgtttt aatacattgt tcttctggct 180  
gaggctgggtc aaagctacac tgatcttcaa ataaaggctc gtcaatgcta cactgttctt 240  
caagcaacgg ctggtgaact tgttctgaca aaggatgggt gacttttctt gcttgccttc 300  
tatgtctttc ctcttcagct aaatagagat gtttcagatt atctgggtat cgatctgtga 360  
attgagattc cagtgcaggt tgagccttct tttccttcog tagcaatttc ttgtaacttt 420  
gctgtatttt cagttttctt cgaaaagcaa agccttgctc ctgcgcaacg ctccccacga 480  
agcttgcggg tggttaggcc gca 503

<210> 193  
<211> 834  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(834)  
<223> n = A,T,C or G

<400> 193  
ancggctctc tagagctgct cgacggccgc catgtgatgg atatctgcag aattcgccct 60  
tagcgtgggtc gcggnccgag gtacaattca ttatgtgttt cattaattac ctttattaaa 120  
aacaacacaa ttatattaca atagggacaa aaaatgttta agcaaatgaa aacgaaacca 180  
tgacataccc aaactcagga ggaggcaaca aaggcagtg taaagggaag cttacagctc 240  
cagatgctta aattaaaaag aagaaagatc tcaaacccat gctaaaggga agcttacagc 300  
tacagatcct taaattaaaa agaagaaaga tctcaaaccc atgctaaagg gaagcttaca 360  
gctgcagatg cttaaattaa aaagaagaaa gatctgaaac ccttgctaaa ggggaagctta 420  
tagctgcagg tgcttaaat aaaaagaaga aagatctcaa atcaataacc taacattaca 480  
cctgaagggg gggaaaaaaa ctaatgacaa accaagcaaa aggaagaaaa taacagatta 540  
gagcagagat aagcagaata agaccagaaa aaaggaaaaa aacactgagt ttgttttttt 600  
aaagatcaat aaaaatttta aaactcacag ctatattaag aaaaaagaga aatctcaaatt 660  
actaaaatca taagtaaaag angtgacagt acaggaataa gaatgtgaga cagaagacat 720  
ggcggcctac cccccgcaag ccttcgtggg gagcgttcgc ganggacaag gctttgcttt 780  
tcgaagaaaa ctgaaaatnc cgcaaagttc cagaaattgt tcngaagaaa agaa 834

<210> 194  
<211> 502  
<212> DNA  
<213> Homo Sapien

<400> 194  
cacttgacct gattcgccaa gcttggtacc gagctcggat ccctagtaac ggccgccagt 60  
gtgctggaat tcgccctttc gagcggccgc ccgggcagga cgctgaggcc tgggagtctc 120  
ttgactccac tacttaattc cgtttagtga gaaacctttc aattttcttt tattagaagg 180  
gccagcttac tgttggtggc aaaattgcc aacataagta atagaaagt ggccaatttc 240  
accccathtt ctgtggtttg ggctccacat tgcaatgttc aatgccacgt gctgctgaca 300  
ccgaccggag tacctcgggc gcgaccacgc taagggcgaa ttctgcagat atccatcaca 360



ctggcgggccg	ctcgagcatg	catctagagg	gcccaattcg	ccctatagtg	agtcgtatta	420
caattcactg	gccgctggtt	tacaacgtcg	tgactgggaa	aaccctggcg	ttaccaact	480
taatcgctt	gcagcacatc	cc				502

<210> 195  
 <211> 848  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(848)  
 <223> n = A,T,C or G

<400> 195						
gnnnnnntt	tnnaatgggc	ctctnnagca	tgctcgagcg	gccgccatgt	gatggatatc	60
tgcagaattc	gcccttagcg	tggtcgcggc	cgaggtaact	cggtcggtgt	cagcagcacg	120
tggcattgaa	cattgcaatg	tgagagccaa	accacagaaa	atgggggtgaa	attggccaac	180
tttctattaa	cttatgttgg	caattttgcc	accaacagta	agctggccct	tctaataaaa	240
gaaaattgaa	aggtttctca	ctaaacggaa	ttaagtagtg	gagtcaagag	actcccaggc	300
ctcagcgctc	tgcccgggcg	gccgctcgaa	agggcgaatt	ccagcacact	ggcggccggt	360
actagtggag	ccgagctcgg	taccaagctt	ggcgtaatca	tggtcatagc	tgtttcctgt	420
gtgaaattgt	tatccgctca	caattccaca	caacatacga	gccggaagca	taaagtgtaa	480
agcctggggg	gcctaattgag	tgagctaact	cacattaatt	gcgttgcgct	cactgcccgc	540
tttccagtcg	ggaaacctgt	cgtgccagct	gcattaatga	atcggccaac	gcgcggggag	600
aggcggtttg	cgtattgggc	gctcttccgc	ttctctgctc	actgactcgc	tgcgctcggt	660
cgttcggtcg	cggcgagcgg	tatcagctca	ctcaaaggcg	gtaataccgg	tattcacaga	720
attcagggga	taacgcagga	aagaacatgt	gagcaaaagg	ncagccaaag	gccaggaacc	780
cgtnaaaagg	ccgcgttgct	ggcggtnttc	cataggetcc	gcccccttga	cgagcatnac	840
aaaaatct						848

<210> 196  
 <211> 511  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(511)  
 <223> n = A,T,C or G

<400> 196						
canntatgac	ctgattacgc	caagcttggt	accgagctcg	gatccactag	taacggccgc	60
cagtgtgctg	gaattcgccc	ttagcgtggg	cgcgcccgag	gtactttttt	tttttttttt	120
tttttttttt	ttttagggtt	ataaaagccc	ttttataaag	ccatttttta	acaaaacaaa	180
aaaaaagttt	acaaaagaaa	aaaagatnca	gaaaaagaat	aacttgcttc	atatgtccca	240
aaaagagaaa	aaaataaagg	ggacaatgcc	aacatgctca	acaataaagg	cttctttttc	300
ttattttttt	aatacaaaat	ncaagcaaa	gatacacata	cttaaaacag	agctcaggag	360
canacacgca	ntcctggaaa	cccttcaata	aaancaaagc	aggagtttgn	tttttctttg	420
tctatgcana	tacatacaga	gactgggata	tgtaaaaaatt	aagtatnaca	aaagaccatt	480
acacgattct	accaatgcat	gttgcatctn	g			511

<210> 197  
 <211> 816  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(816)  
 <223> n = A,T,C or G



&lt;400&gt; 197

gggcctctag	agcatgctcg	acggccgcca	tgtgatggat	atctgcagaa	ttcgcccttt	60
cgagcggcgc	cccgggcagg	tactaaggaa	gttaaagttt	gaatgtaacc	actttattta	120
aaagggtttt	ttctttaatt	taaatagaat	ggggttgaag	tgaacatgat	tttgttgacc	180
atgttcgtga	attacagatg	caacatgcat	tggtagaatc	gtgtgatggg	cttttgtgat	240
acttaatttt	tacatatccc	agtctctgta	tgtatctgca	tagacaaaga	aaaaacaaac	300
tcctgctttg	cttttattga	agggtttcca	ggactgcgtg	tctgctcctg	agctctgttt	360
taagtatgtg	tatcctttgc	ttgtattttg	tattaaaaaa	ataagaaaaa	gaagccttta	420
ttgttgagca	tggtggcatt	gtccccttta	ttttttttct	tttttgggac	atatgaagca	480
agttattctt	ttctgtatc	tttttttctt	ttgtaaactt	tttttttgtt	ttgtttaaaa	540
atggctttat	aaaagggtt	ttataaccct	aaaaaaaaaa	aannnnnnna	aaaaaaaaaa	600
gtcctcggcc	gcgaccacgc	taagggcgaa	ttccagcaca	ctggcggncc	ttactagtgg	660
atccgagctc	ggaccaagct	tggcgtaatc	atggncatag	ctgttcctgt	gtgaaatgtt	720
atccgctcac	aattcccaca	catacaacc	ggagcataaa	gtgtaaacct	ggggtgccta	780
atgagtgagc	tactcaataa	ttgcgttgcg	ctcang			816

&lt;210&gt; 198

&lt;211&gt; 498

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(498)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 198

tgattcgcca	agcttggtac	cgagctcgga	tccactagta	acggcccgc	agtgtgctgg	60
aattcgccct	tcgagcggnc	gnccggggcag	gtacaattca	gagcaggtgt	ccatagaaac	120
aactaggntt	gaaaaaactg	taagacaatt	cacagttgaa	atcaaaccac	caactgtgaat	180
gtgttaaata	cttgccatat	aacaacactt	taacattgat	cttgctaaat	aaggctatga	240
ttcataagat	gcattggatt	ccaaagctgn	ttacattctt	tataaattaa	ttcacaggat	300
tcaaatagtt	gcttttttag	ttcaactggg	tattagcaaa	aatnatataa	aatgatcccc	360
gtgcaagcac	aaatttacct	tcctttctaa	taaaacatga	cagattatat	tacaacttga	420
tagcctctct	tttaaaaagt	ctgtgacatt	attaaagagg	tgacggaatg	cttgntttgc	480
aaaccccaac	acatctttt					498

&lt;210&gt; 199

&lt;211&gt; 837

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(837)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 199

nnnnnnntnn	cantgggcct	ctagagctgc	tcgacggccg	ccatgtgatg	gatatctgca	60
gaattcgccc	ttagcctggt	cgcgcccgag	gtaccttgag	atctgagcaa	ctgtgttaat	120
gaagtaatag	caatggtcca	cagtgaagaa	tgtgttgagg	tttgcaaaac	aagcattccg	180
tcacctcttt	aataatgtca	cagacttttt	aaaagagagg	ctatcaagtt	gtaatatata	240
ctgtcatggt	ttattttagga	aggaaggtaa	atgtgtgctt	gcacggggat	cattttgtat	300
tattttttgct	aataccagct	tgaagctaaa	aagcaactat	ttgaatcctg	tgaattaatt	360
tataagaatg	ttaaacagct	ttggaaatac	atgcatctta	tgaatcatag	ccttatttag	420
caagatcaat	gttaaagtg	tggtatatgg	caagtattta	acacattcac	agtgtttggt	480
tgattttcaac	tgtgaattgt	cttacagttt	tttcaaacct	agttgtttct	atggacacct	540
gctctgaatt	gtacctgccc	gggcggccgc	tcgaaggcgc	aattccagca	caactggcgc	600
cgttactagt	ggatccgagc	tcggtaccaa	gcttggcgta	atcatggtca	tagctgnttc	660
ctgtgtgaaa	ttggtatccc	gctcacaatt	ccacacaaca	tacgagccgg	aagcataaag	720
tgtaaagcct	ggggtgccta	atgagtgagc	taactccatt	aattgcgttg	cgctcactgg	780
cccgttttnc	agtcnggaaa	cctgtctgcc	anctgcatta	atgaatcggc	caccccg	837



<210> 200  
<211> 506  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(506)  
<223> n = A,T,C or G

<400> 200  
nnnnttgacc tgattacgcc aagcttggtg ccgagctcgg atccactagt aacggccgcc 60  
agtgtgctgg aattcgccct tagcgtgggtc gcggccgagg tactgcatcc ataatttatc 120  
gccatgtgca acagctttgc gttttctaaag gcacaatttt taatgaaatg atgtgtagat 180  
ttcaatctaa taacagctca tccaaatgac aaatatgggtc gaaatccctc cagtggctga 240  
ggaaattttct gcacctatat ggaaccacaca tgcaaagaac ccatctagca tgtaataaat 300  
aatcgctagc catactcaat aagacacgga aaaattattg cttacataac agaaaaacat 360  
ctacttgacc cccttttatg actacatcaa tctattagga gtgtatccat agtctacatt 420  
cacaaaatgt catcttgact tatttgccat tgatttaagg cagaataaat agtccccctt 480  
tccccagtct taacaacaaa aaacaa 506

<210> 201  
<211> 864  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(864)  
<223> n = A,T,C or G

<400> 201  
ccnntanagc atgctcgacg gccgcccggg caggtacctt ggaagttatg tcattaatat 60  
aggctgggtc atcaaatata gcaaacctt gcaatatcag ctagatttac actccgggac 120  
gttgcccaaa ggtaggaaga aagcaggggg aaatatctca gtcattcatt ccaaagtcatt 180  
tatcaaaatc tgtgaggaag tttaattctt caaagagtca atgtcagaca tcaggcctct 240  
gttgccctgct tctctcgagg cactagatta ggagtcttca ataagagact taacatgagg 300  
tatatggaag atgaggcacc gagataagtt catcattagg tgtgagcact gctcaccctt 360  
gctggcaagt tctccttaag ggcctgaagc acagggtgtcc aaagaaaagc gttaagtcca 420  
tcttaataga atctatgtgg tatatgatgt ggtcagcccc tggctctgtga tcagcaagaa 480  
cctacagcac agattatgcc ctgcccactt caatgaatac ctactctcct ncattctcca 540  
tcactttttt gctatcaaga ctccggacct tgcccatgga gaagtttaga gaggaactct 600  
tgtggagagc tgggttaatt tctgcccgtg gcgacaagtt tcaacttggc caagaaangg 660  
agtcaagtta ttaaaaagca tcacaatgta gaatcttcca ggctggggtt tttggntttt 720  
tnggtggtnn aanactgggg gnaaaagggg ggacctatct aaattccngg cctttaaaat 780  
caaattgggcc aaaattaagt tcaaggaatg gaccattttt nggggnaaat ggttngaacc 840  
ttntnggan ttccncctt ccct 864

<210> 202  
<211> 505  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(505)  
<223> n = A,T,C or G

<400> 202  
gnntnanacn nttnactaat antganttag tncgcactcg atccctctna ctncantnan 60  
ancgntngaa ttgcccttnn tagcggccnt ccngncaggt acaaccagtt tggaaaacag 120



tntcacagtt	tttttaaaaa	ttacatatac	aaccancaac	tgacccagcc	atttcactcc	180
taggtattta	cccaagatna	actgaagtgt	agatacaagc	anagacttgn	gcacaagtgt	240
tcatggtaag	ctttactngc	antagctcca	aactanggac	aactcaaata	gccaacangg	300
aaatggacaa	attatgttac	tttcatacag	tggaatatcc	tcttgtgata	aaaataantg	360
aacanttgat	acatggatga	atctcaaaat	aattatgctg	agtaaaagaa	gccagacaaa	420
atgtacagtg	catacagcta	ttcatgtggg	tgccagctcc	atcccccagt	gacctcttca	480
tacggncaga	gggtggcatg	gcanc				505

&lt;210&gt; 203

&lt;211&gt; 819

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (819)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 203

ggcctcngca	gcatgctcga	ncggccgcca	tgtgatggat	atctgcagaa	ttcgccctta	60
gcgtggtcgc	ggccgaggta	cgcggggagag	caggaccgga	gcgcggggcca	agctggagat	120
ggatgatgct	gaccctgagg	aaagaaaacta	tgacaacatg	ctgaaaatgc	tgtcagatct	180
gaataaggac	ttggaaaagc	tattagaaga	gatggagaaa	atctcagtgc	aggcgacctg	240
gatggcctat	gacatgggtg	tgatgcgcac	caaccctacg	ctggccgatt	ccatgcgtcg	300
gctggaggat	gccttcgtca	actgcaagga	ggagatggag	aagaactggc	aagagctgct	360
gcatgagacc	aagcaaaggc	tgtaggcccc	actggcccac	cacagctgcc	atgccaccct	420
ctgcccgtat	gaagagggtca	ctgggggatg	gagctggcac	ccacatgaat	agctgtatgc	480
actgtacatt	ttgtctggct	tcttttactc	agcataatta	ttttgagatt	catccatgta	540
tcaattgttc	acttattttt	atcacaagag	aattattccac	tgtatgaaag	taacataatt	600
tgtccatttc	cctgtttggct	atttgagttg	tccctagttt	ggagctattg	cgagtaaagc	660
taccatgaac	atttgtgcac	aagtctttgc	ttgtatctac	acttcagttt	atcttgggta	720
aatacctang	agtgaaatgg	cttgggtcaa	tntgtttggt	ggatatgtaa	tttttttaaaa	780
aaaactgnga	tactgttttc	caaactgggt	tgtccctct			819

&lt;210&gt; 204

&lt;211&gt; 840

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (840)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 204

gnnnnnnttn	nnctnntgga	acccgttttg	nnaagctgct	cgacggccgc	catgtgatgg	60
atatctgcag	aattcgccct	tagcgtgggtc	gcggccgagg	taccttnaga	tctgagcaac	120
tgtgttaaatg	aagtaatagc	aatgggtccac	agtgaagat	gtgttggggg	ttgcaaaaaca	180
agcattccgt	cacctcttta	ataatgtcac	agactttttt	aaaagagagg	ctatcaagtt	240
gtaataataat	ctgtcatggt	ttatttagga	aggaaggtaa	atttgtgctt	gcacggggat	300
catttttgtat	tattttttgct	aatacccagt	tgaagctaaa	aagcaactat	ttgaatcctg	360
tgaattaatt	tataagaatg	ttaaacagct	ttggaaatac	atgcatctta	tgaatcatag	420
ccttattttag	caagatcaat	gttaaagtgt	tgttatatgg	caagtattta	acacattcac	480
agtgtttgtt	tgatttcaac	tgtgaattgt	cttacagttt	tttcaaacct	agttgtttct	540
atggcacct	gctctgaatt	gtaccctcta	gtcaccagca	aaagcatttc	cacccttttc	600
aacccccaat	cagaccactg	cattcagttg	tattggaggga	ctttcatcac	agcttccagt	660
aggtgggtct	tggcacaggc	agnctgactg	gtatangaac	tggtgctctt	ggactccctg	720
cagtgaataa	cgaccctttt	gtacctgccc	gggcggccgc	taagggcgaa	ttccacacac	780
tggccggccg	ttactagtng	gatccnaact	cgggtccaaan	cttggcgtat	tcatgggtct	840

&lt;210&gt; 205

&lt;211&gt; 497



<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(497)  
<223> n = A,T,C or G

<400> 205  
nnnnttgacc tgattacgcc aagcttggtg ccgagctcgg atccactagt aacggccgcc 60  
agtgtgctgg aattcgccct tagcgtgggc gcggccgagg tacatttact ataaaagctg 120  
ttgcatttta gacaacttgt tgtttttatt ttttactgtt tctcagaggc attttagaat 180  
aaatacttta aatgaaagtt agtataaccg atatagaaca ctggcccacc cagagcagta 240  
acatcttttg gacggactca catatgaggt ggatcatttc agtttggtta atcttacact 300  
gtgtatagat aactataata tgtattgcat taatcacact acatagaaag gaaatgtcat 360  
ggaagttcgc tagtgaaaaa caaaaagtta cccattattt ttattaaaga gtagggacta 420  
gcttttggag tatgagaaaa aaaatcagat atacttcctc aggaacaata aatcactcac 480  
ttgcctcacc tgtttttt 497

<210> 206  
<211> 820  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(820)  
<223> n = A,T,C or G

<400> 206  
gggcctntag aagcatgctc gagcggccgc cagtgtgatg gatatctgca gaattcgccc 60  
tttcgagcgg ccgcccgggc aggtacatgt attgaagcta gaatcgagtc aagaaaaata 120  
aagccccatt ctccaactgc aaaatgtgct ttcccataat gaacactagt caccagcaca 180  
gaataatctc caacattttc taaattctaa ttgccaaactg tttctattta tatttgattt 240  
atattttcatt tggagtctgt tacatggcag cttaggcaga ctagatcttg ttttttccaa 300  
tgcagcataa tgagtatgat ctatttcctt tcaaataatc tttgagatcc caggaaaaaa 360  
aatgctctgc tccattgagc tataatgtaa atgtgtttgt ttaaaaaaca ggtgaggcaa 420  
gtgagtgatt tattgttcct gaggaagtat atctgatttt ttttctcata ctccaaaagc 480  
tagtccctac tctttaataa aaataatggg taactttttg tttttcacta gcgaacttcc 540  
atgacatttc ctttctatgt agtgtgatta atgcaataca tattatagtt atctatacac 600  
agtgtaaagt ttaacaaact gaaatgatcc acctcatatg tgagtccgtc caaaagatgt 660  
tactgctctg ggtgggccag tgttctatat cggtataact aactttcatt taaagtattt 720  
attctaaaaa gcctctgaga aacagtaaaa ataaaaacca caagttgcta aaatgcaaca 780  
gcttttatag taaatgtcct tgggccgcga ccacgcttag 820

<210> 207  
<211> 496  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(496)  
<223> n = A,T,C or G

<400> 207  
cnnttgacct gattacgcca agcttggtac cgagctcggg tccactagta acggccgcca 60  
gtgtgctgga attcgccctt agcgtggctg cggcccggagg taaaaagac aaaatcagag 120  
ttcaatttca gcagcaagac ttatcaagaa tttaatcact atttgacatc aatggttggg 180  
tgctgtgga cgtccaaacc ctttgggaaa ggaatatata ttgacctga aatcctagaa 240  
aaaactggag tggctgaata taaaaacagt ttaaattgtg tccatcatcc ttctttcttg 300  
agttacgctg tttccttttt gctacaggaa agcccagaag aaaggacagt aaatgtgagc 360



tctattcngg gaaagaaatg gagctggtat ttggactatt tattttcaca nggggttacia 420  
ggcttgaaac tttttataag aagtagtggt catcattcct ncattcccag agcagaaggc 480  
ataaactgca caatca 496

<210> 208  
<211> 810  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(810)  
<223> n = A,T,C or G

<400> 208  
gcattgctga cggcccgcca gtgtgatgga tatctgcaga aattcgccct ttcgagcggc 60  
cgcccgggca ggtactcctt gaggatggca gtctgtcagt gaaatgaaaa tgggaactca 120  
agatgagcca ctttgcctta gcaatgagga gtgagttag tccagtgtgt tcagtttatg 180  
tcaacattca tttaattatt attgttgcag tttatgccct ctgctctggg aatggaagaa 240  
tgatgaacac tacttcttat aaaaagtttc aagccttgta acccctgtga aaataaatag 300  
tccaaatacc agctccattt ctttccccga atagagctca catttactgt cttttcttct 360  
gggctttcct gtagcaaaaa ggaaacagcg taactcaaga aagaaggatg atggactaca 420  
tttaactgt ttttatattc agccactcca gttttttcta ggatttcagg gtcaatatat 480  
attcctttcc caaagggttt ggacgtccac aggcaccaa ccattgatgt caaatagtga 540  
ttaaattctt gataagtctt gctgctgaaa ttgaactctg attttgtctt ttgtacctcg 600  
gccgcgacca cgctaagggc gaattccagc acactggcgg ccggtactag tggatccgag 660  
ctcgggtccaa gcttggcgta atcatgggca tagctgtttc ctggtgtgaa attgntatcc 720  
gctcacaatt ccacacaaca tacgaaccgg aagcattaag tgtaaagcct ggggtgccta 780  
atgagtgagc taacttacat taattgcgnt 810

<210> 209  
<211> 495  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(495)  
<223> n = A,T,C or G

<400> 209  
cnnttgacct gattacgcca agcttggtac cgagctcgga tccctagtaa cggccgcccag 60  
tgtgctggaa ttgcgcccta gcgtgggcgc ggccgaggta caactctcca gggcacaata 120  
cgtttacagc tgcctttcct tcacatactt ttctaattca gaactactca caattctaag 180  
caaattccca ttcacgaagt ctgtccataa tgcgaccttc tcttttttta acatatacat 240  
cttaaaaaac aaatatataa aaaattctta ttttgcctga atgctttcaa tttttcacat 300  
tttacatgat catcacattt atttcttata ttgaaaggca tgggtttctgt tgacatgtcg 360  
tgcaaagcca aaaaaaaaaa anaaaaaaaa aagggtctga ttgcttttca attggtctaa 420  
cacttttcct tgtctaggct ttggatttta aagttcatga cagccccacc accagtagaa 480  
acccaaggc ttgca 495

<210> 210  
<211> 820  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(820)  
<223> n = A,T,C or G

<400> 210



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gggcctcaga gctgctcgan cggccgccat gtgatggata tctgcagaat tcgccctttc 60
gagcggccgc ccgggcaggt acccacgttt tgctccacac tccttgaccg caggggctcg 120
gacacaaacc cctgtcacca ggagagtcag tcagcactac ttgggagggc taaagggaaa 180
tttgaaaata aaattccaaa gtttgagta aaaaaattca agtgttgatt ttatattctt 240
tccctttctg acacagccta aagcgtaggg ggaacatgtg tttatctgtg ggagataaac 300
aagatggagt cccaaagact ttaacaaaat atttttttta aaatccacta gaatagaaaa 360
tacattattt agatatactt tatgctgaga gtgagtatat atgcttgtcc tatttaaact 420
tgtgagaaaa agtggatatcc cttgatacat ttagaaatat gggggctatc ttgtttcatt 480
gtgggggtgg ggcagaagga gaataaatgc aggatgacct tgttgaagga atcttancat 540
ggccaacagg ggacgtttcc agtcgattac caggaaatgc aagccttggg gtttctactg 600
gtgggtgggc tgtcatgaac tttaaaatcc aaagcctaga caaggaaaag tgttagacca 660
attgaaaagc aatccagccc tttttttttt nnnntttttt tttggctttg cacgacatgt 720
caacagaaac catgcctttc aatntaagga aataaatgtg atgatcatgt aaaatgtgaa 780
aaattgaaag cattncacca aataaggaaat tttttatttn 820

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<210> 211
<211> 499
<212> DNA
<213> Homo Sapien

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<220>
<221> misc_feature
<222> (1)...(499)
<223> n = A,T,C or G

```

```

<400> 211
canttgactg attacgcaa gcttggtacc gagctcggat ccactagtaa cggccgccag 60
tgtgctggaa ttcgccctta gcgtggctgc gggccgaggt acaactctcc agggcacaat 120
acgtttacag ctgcctttcc ttcacatact tttctaattc agaactactc acaattctaa 180
gcaaattccc attcacgaag tctgtccata atgcgacctt ctcttttttt aacatataca 240
tcttaaaaaa caaatatata aaaaattctt attttgctgg aatgctttca atttttcaca 300
ttttacatga tcatcacatt tatttcttat attgaaaggg atggtttctg ttgacatgtc 360
gtgcaaagcc aaaaaaaaaa aaaaaaaaaa aagggctgga ttgcttttca atnggggtcta 420
acacttttcc ttgtctaggg tttggatttt aaagtccatg acagccccac caccagtaga 480
aaccccaagg cttgcattt 499

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```

<210> 212
<211> 821
<212> DNA
<213> Homo Sapien

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<220>
<221> misc_feature
<222> (1)...(821)
<223> n = A,T,C or G

```

```

<400> 212
gggcccantan agcatgctcg agcggccgcc atgtgatgga tatctgcaga attcgccctt 60
tcgagcggcc gcccgggcag gtaccacgt tttgctccac actccttgac cgcaggggct 120
cggacacaaa cccctgtcac caggagagtc agtcagcact acttgggagg gctaaagggg 180
aatttgaaaa taaaattcca aagtttgag taaaaaatt caagtgttga ttttatattc 240
tttccctttc tgacacagcc taaagcgtag ggggaacatg tgtttatctg tgggagataa 300
acaagatgga gtcccaaaga ctttaacaaa atattttttt aaaaatccac tagaatagaa 360
aatacattat ttagatatac tttatgctga gagtgaagt atatgcttgt cctattttaa 420
cttgtagaaa aaagtggat cccttgatac atttagaaat atgggggcta tcttgtttca 480
ttgtgggggt ggggcagaag gagaataaat gcaggatgac cctgttgaag gaatcttagc 540
atggccaaca ggggacgttt ccagtcgatt accaggaaat gcaagccttg gggtttctac 600
tggtgggtgg gctgtcatga actttaaaaa ccaaagccta gacaaggaaa agtggttagc 660
caattgaaaa gcaatccagc cttttttttt tttttttttt ttggctttgc acgacattgt 720
taacagaaac catgcctttc aatattagaa ataaatgtga tgatcatgtt aaatgtgaaa 780
aattggaagc cttcagcaaa ataagaattt ttattntttt n 821

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<210> 213  
<211> 497  
<212> DNA  
<213> Homo Sapien

<400> 213  
acttgacctg attacgccaa gcttggtacc gagctcggat ccactagtaa cggccgccag 60  
tgtgctggaa ttcgccctta gcgtggctcg gcccgaggta caaaacaata gtctaaacta 120  
acacgaactg ttacctgggtc tattaaagga tacacggat ccactaaaca gacagatcct 180  
tatttcctg cttgatgttg caaagccctt ggcaaccagg ggcaaagggtc actgggggtt 240  
gactaactgg ggctgagtgg cagctatgac tgtccttcag atttttgagt tgtttttgaa 300  
attaaaagct tctaaaagtt gcatcaacat cctcctaagc ccccatagga ttgtaacacc 360  
accacaaaag gccaccaaca cttttttaaac aaagtgaaaa ctgtctgaca ccaatcatct 420  
tgaaaactcc atggcaagtg cattagctat gatttcatca cttacaggta gagaagctta 480  
ctgtctactg gtgtggg 497

<210> 214  
<211> 817  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1) ... (817)  
<223> n = A,T,C or G

<400> 214  
ggccttanag ctgctcgncg gccgccatgt gatggatatt tgcagaattc gccctttcga 60  
gcgccgccccc gggcagggtac tctcagtcatt atgcagaaat actttttttt taattaatag 120  
ttacaggctt gttgggtccag tgggattttg gtagggggag aaagatacct tctaaaatgg 180  
atcaatagaa ccaaaataat acagcatgtt ctataaccac aaggaaatca aatgatcctg 240  
tcatgattcc agttagtcatt aacctgtta gcagtgttaa atgcatttta gaaatgggtga 300  
cttctgtgggt tttcctagca tttgtctcta acaaatgggtg aaataattac tcatggccct 360  
ctctgccatt gtctttcatt ttttcacagt gaaattagac ccttttactt caccattctg 420  
ccactgcaaa ttaagtataa agaaaatagc aagagtgtcc acaccagtag acagtaagct 480  
tctctacctg taagtgtatga aatcatagct aatgcacttg ccatggagtt ttcaagatga 540  
ttggtgtcag acagttttca ctttgtttaa aaagtgttg tggccttttg tgggtgggtg 600  
acaatcctat gggggccttan gaggatgttg atgcaacttt tagaagcttt taattttcaa 660  
aacaactcaa aaatctgaag gacagtcata gctgccactc agccccagtt agtcaaacc 720  
cagtgcactt tgcccctggg tgccaagggc tttgcaacat caagcangga aataaggatc 780  
tgnctgtagg tgggataccg ggtatccttt aatagac 817

<210> 215  
<211> 495  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1) ... (495)  
<223> n = A,T,C or G

<400> 215  
acttgacctg attacgccaa gcttggtacc gagctcggat ccactagtaa cggccgccag 60  
tgtgctggaa ttcgccctta gcgtggctcg gcccgaggta catgctgact tcttggtatc 120  
ttttaaggcc taattttccc ttccttgaga ttactgtagt gtgttcacgc taattttctat 180  
ttggaacga gttggaacag ctgaaaacta ggtattattg aaggcaaagc agcctcacgt 240  
cagtttttta tcagctcatt tgggaagttt tttttttttt ttttttaatt aattagaaag 300  
taggctgggc acggtggctc atgcctataa tcccagcact tggggaggcc gaggatctcc 360  
tctctggtag acacttgag ggcaggagt aagagaccat cctggccaac atgatgaaac 420  
cctgtctcta ctaaaaatac aaaaagtagc tgggcgtggg ggcatactct tacaatccca 480  
gctacttggg aggc 495



<210> 216  
<211> 823  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(823)  
<223> n = A,T,C or G

<400> 216  
gggcctcaga gcatgctcgn cggccgccag tgtgatggat atctgcagaa ttcgcccttt 60  
cgagcggccg cccgggcagg tacttttttt tcttttttta catctgattt taatgcttcg 120  
ttaacttcaa aaggaactgg tagagttcag aaggtgagct gttgtttttc taaacctctt 180  
cccaggaagg ggacattgac acttgaattt ttgtcacctt tttcctcatt agaaggaaaag 240  
tagaaagcct tactgtagga tttttaaaaa aaaatccatc tcaccccata ttgggtcttaa 300  
ataagtatag actaatatc ctaagctacc tttaacaacg tagaatttag atgggttcat 360  
atatgtgaga aaaacctgaa tataggacag gggctctact tttttcccca cctctgtcgc 420  
ccaggctaga gtatagtggg gtgatcttgg cccactgcaa cctctgtctc ctaggttcaa 480  
gtgattctcc tgcctcagcc tcccaagtag ctgggattgt aagagtatgc caccacgccc 540  
agctactttt tgtattttta gtagagacag ggtttcatca tgttgccag gatggctct 600  
taactcctgc cctcaagtga tccaccagag aggagatcct cggcctnccc aagtgtctgg 660  
attataggca tgagccaccc gtgcccagcc tactttctaa ttaattaaaa aaaaaaaaaa 720  
aaaaacttnc caaatgagct gatnaaaac tgacgtgang ctgctttgcc ttcaataata 780  
cctagttttc actggtccaa ctcgtttcca aatagaaatt acg 823

<210> 217  
<211> 827  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(827)  
<223> n = A,T,C or G

<400> 217  
nnnnnnnggc ctntnnagca tgctcgacgg ccgccatgtg atggatatct gcagaattcg 60  
cccttttcgag cggccgcccc ggcaggtact gtatcattgg cagatgtgac gtcaccgaca 120  
accagagtga agtggcggac aaaactgagg attacctgtg gctgaagttg aaccaagtgt 180  
gttttgacga cgatggcacc agctccccac aagacaggct cactctctca cagttccaga 240  
agcagttggt ggaagactat ggcgagtcce actttacggg gaaccagcaa cccttccct 300  
acttccaagt cctgttcctg acagcgaggt ttgaagcagc agttgccttt cttttccgca 360  
tgagagcggc gcgctgccat gctgtccatg tagcactggg gctgtttgag ctgaagctgc 420  
ttttaaagtc ctctggacag agtgctcagc tcctcagcca cgagcctggg gaccctcctt 480  
gcttgccggc gctgaacttc gtgcggctcc tcatgtgtga cctcggccgc gaccacgcta 540  
agggcgaatt ccagcacact ggcggccggt actagtggat ccgagctcgg taccaagctt 600  
ggcgtaatac tgggtcatagc tgtttcctgt gtgaaattgt tatccgctca caattccaca 660  
caacatacga gccggaagca taaagtgtaa agcctggggg gcctaagtga tgagctaact 720  
cacattaatt gcgttgccgt cactgcccgc ttttcaatcg ggaaacctgt cgtgccagct 780  
gcattaatga atcggncaac gcccggggan aagcgggttg cgtatttt 827

<210> 218  
<211> 498  
<212> DNA  
<213> Homo Sapien

<400> 218  
cacttgacct gattacgcca agcttggtac cgagctcgga tccactagta acggccgcca 60  
gtgtgctgga attcgccctt tcgagcggcc gcccgggcag gtactttttt tttttttttt 120  
taattccac aacaacccat ttcaaaatga gaaaactagg ttgagtgact tgtccacagt 180



tccaaagcta	ataaaaatga	tgaggcatat	ttctcttctg	ggcccactgt	attcagttct	240
ttgttcttta	cactgagtg	cgaaaaaaa	aaatcagact	atthttgattc	tagaaagtga	300
gataattgaa	aattgttaaca	tattttctcca	aaactgatca	gactgtggag	tctgtcactt	360
ttttgggtata	ataaaggagt	ttgaagaaac	aaatgacatc	attcctgatg	atggtagccc	420
actccaacaa	aggcgtatat	atgtaggcaa	gtttgaagat	atctataaga	gcattaaaa	480
gcaagtgcac	cattgtgg					498

<210> 219  
 <211> 818  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(818)  
 <223> n = A,T,C or G

<400> 219						
ggcctntnga	gctgctcgac	ggccgccatg	tgatggatat	ctgcagaatt	cgcccttagc	60
gtggcgcggc	cgaggtacct	agaaaacaga	aacttgagta	gacatggtaa	tgaccagaaa	120
aggctatctt	tatacatctt	ttttgctacg	cttcaaattc	atgtcaccta	aaagttgtga	180
agtgcacaaa	acaaatctac	ttaactgaaa	attatthttca	atgaatggga	tgthttagaac	240
tctgtgaggg	ttthtaaggt	ctthttcgaat	agcaaattct	aatgaggctt	ttthtaagttg	300
gcaatthtaaa	ctcatacaag	aaataaaaaac	tcaccagtgt	ggctgggcag	aataatatata	360
ttthttcaaa	tattgtthttg	ttgtthttttc	cctgcactgt	atccatgggtc	ccatgatgaa	420
actgttatat	tgctgatata	tttattggaa	tatgtggggc	aacttccttt	ccactcaaca	480
tatggattgg	tagthttaaaa	taatttccttt	ctattaaagca	aatgtgtggc	taaggcacat	540
ttaaatagcc	cattaaacca	atgagatgac	aatgtgttac	cctcagagaa	agcttaattt	600
ttggagtaat	caattacaca	tatcacagaa	tgtctcatga	gaacatthtt	ggctagggtct	660
accaatthtat	catgcaata	attatagatt	ttcatthtgag	gcaaagatgc	tgattcatca	720
ttagtaacat	ggtcacaaat	aatcatthtat	thttatthttg	taacatctgt	ctthtcctgtg	780
gggaaactta	ctatatgtct	tacgttaatt	aaattaaa			818

<210> 220  
 <211> 497  
 <212> DNA  
 <213> Homo Sapien

<400> 220						
cacttgacct	gattacgcca	agcttggtac	cgagctcgga	tccactagta	acggccgcca	60
gtgtgctgga	attcgccctt	tcgagcgggc	gcccgggcag	gtacagccat	gaaattgttg	120
ctactcatag	aaagtcttag	tatagthttg	thttaaacatt	thtaaaattgc	aaataaatat	180
agatagataa	tatcatgatg	agaagggtcac	gggaagcctg	gagatttcag	ggtgctcttt	240
cataattgga	gcgagaatca	tgtaacagtt	aagaaactaa	actcttgagc	cttcatagtc	300
thtgctthtt	ccccatthtat	thtatctgata	thtatataccc	tctthtaatta	tagactggac	360
tgaaatattt	tattthttgtt	thattataaa	aaatccctact	cgtctthtaac	atgttctctt	420
aaagagtgtt	tcatatataa	atactthtccc	ccccaaaatat	aaagaggcta	accactatag	480
tattgaaaga	ttgaaag					497

<210> 221  
 <211> 831  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(831)  
 <223> n = A,T,C or G

<400> 221						
cnnnannggg	cctntanagc	atgctcgacg	gccgccatgt	gatggatatc	tgacagaattc	60
gcccttagcg	tggtcgcggc	cgaggtacaa	tgaaagtatg	agctacctct	ctgaagtctg	120



gaaaccttga	gagtattaag	gttacatgca	taaaatcttt	aaaatggaag	tgtcattaca	180
tggtaaacca	attcaaatta	aaaataatct	catgctgtga	aagcaaaaata	tataactggt	240
ttacccattc	ataggtaatt	gcacgtcttt	gttacatctc	aatagtttct	ttgtatttgt	300
tgcaatcacc	ctccttcttc	tcaacactct	tttctacctc	catgtaactg	ctgttgtgaa	360
ttctttataa	tattctcatc	aatgttttaa	gatgaagtgt	aaagtgttta	caaaggaagc	420
attttaactc	ctcttagaac	tgagccttta	aatttggttt	tagacaccct	aggtctttct	480
ttcaatcttt	caatactata	gtggttagcc	tctttatatt	ttggggggaa	agtatttata	540
tatgaaacac	tctttaagag	aacatgttaa	agacgagtag	gattttttat	aataaaacaa	600
aaataaaaata	tttcagtgca	gtctataatt	aaagagggta	tataatatca	gataaaataaa	660
tggggagaaa	gcaaagacta	tgaaggctca	agagttagt	ttcttaactg	gtacatgatt	720
ctcgctncaa	ttatgaaaga	gcaccctgaa	atctncangc	ttncctgac	cttctcatca	780
tgatattatc	tatctatatt	tattgcaatt	ttaaaatggt	taaaccaaac	n	831

&lt;210&gt; 222

&lt;211&gt; 497

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;400&gt; 222

cacttgacct	gattacgcca	agcttggtac	cgagctcgga	tccactagta	acggccgcca	60
gtgtgctgga	attcgccctt	agcgtggctg	cggccgaggt	actctttctc	tccccctctc	120
tgaatttaatt	tctttcaact	tgcaatttgc	aaggattaca	catttcactg	tgatgtatat	180
tgtgttgcaa	aaaaaaagt	tctttgttta	aaattacttg	gtttgtgaat	ccatcttgct	240
ttttcccat	tggaactagt	cattaaccca	tctctgaact	ggtagaaaaa	catctgaaga	300
gctagtctat	cggcatctga	caggtgaatt	ggatgggtct	cagaaccatt	tcacccagac	360
agcctgtttc	catcctgttt	aataaattag	tttgggttct	ctacatgcat	aacaaaccct	420
gctccaatct	gtcacataaa	agtctgtgac	ttgaagttta	gtcagcacc	ccaccaaac	480
ttatttttct	atgtgtt					497

&lt;210&gt; 223

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(822)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 223

gggcctnaga	gctgctcgnc	ggccgcatg	tgatggatat	ctgcagaatt	cgcccttcga	60
gcgcccgccc	gggcaggtac	tttattttca	aaaaactcat	atgtcgcaaa	aaacacatag	120
aaaaataaag	tttggtgagg	gtgctgacta	aacttcaagt	cacagacttt	tatgtgacag	180
attggagcag	ggttgtttat	gcattgtagag	aaccctaaact	aattttattaa	acaggatgga	240
aacaggctgt	ctgggtgaaa	tggttctgag	aaccatccaa	ttcacctgtc	agatgccgat	300
agactagctc	ttcagatgtt	tttctaccag	ttcagagatg	ggttaatgac	tagttccaat	360
ggggaaaaag	caagatggat	tcacaaacca	agtaatttta	aacaaagaca	cttttttttt	420
gcaacacaa	atacatcaca	gtgaaatgtg	taatccttgc	aaattgcaag	ttgaaagaat	480
taaattcaga	ggaggggaga	gaaagagtac	ctcgccgcgc	accacgctaa	gggcgaattc	540
cagcacactg	gcggccgtta	ctagtggatc	cgagctcggt	accaagcttg	gcgtaatcat	600
ggtcatagct	gtttcctgtg	tgaaattgtt	atccgcctac	aattccacac	aacatacgag	660
ccggaagcat	aaagtgtaaa	gcctgggggtg	cctaattgagt	gagctaactc	acattaattg	720
cgttgcgctc	actggccgct	tttcagtcng	gaaacctgtc	gtgccagctg	cattaatgaa	780
tcggccaacg	cgccgggaga	ngcngnttgc	gtattgggccc	cn		822

&lt;210&gt; 224

&lt;211&gt; 494

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature



&lt;222&gt; (1)...(494)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 224

cncttgacnt	gattacgcc	agcttggtac	cgagctcgga	tccctagtaa	cggccgccag	60
tgtgctggaa	ttcgccctta	gcgtggctgc	ggccgaggta	cttttttttt	tttttttaac	120
caactcaata	tgtgtttgat	gatagtgaat	tgataaaacc	cgaagctttt	ccctgtaaat	180
cttacatctt	tgccctttaa	gaatgggtta	caaccatcac	tagatcacag	tagtgccata	240
tgaaggttga	gaaccgtagg	agaggctctc	atgctgtaaa	taatgttgca	ggctaataac	300
ctttcatcac	ttcctttgtg	cgcttcctgc	cttaagtgc	aagtagcaac	atggcttggtg	360
tcccctgtgc	agcatcagct	tatgctgcca	caagtcagtt	tgacccttag	gtgccagga	420
gctagtatcc	ttagatcttt	ctatcgctaa	cttaattctc	ttcgttattt	atctgacct	480
ctaactccat	gtct					494

&lt;210&gt; 225

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(822)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 225

gggccttnga	gctgctcgnc	ggccgccagt	gtgatggata	tctgcagaat	tcgcccttcg	60
agcgccgcc	cgggcaggta	ctttaatttt	gcttgttcaa	atgatctaca	cttacatttt	120
gcaaactctt	tttttttaaa	tttttaaatt	ttatatcttt	tttccagcca	actcaaggcc	180
aaaaaaaaat	tcttaataata	gttattatgc	gaggggaggg	gaagcaaagg	agcacaggta	240
gtccacagaa	taagacacaa	gaaacctcaa	gctgtgaggt	caatttgtaa	ttaaaagaat	300
actaagatta	gatgaacaca	acactcagaa	atactctagg	agagctgaaa	aagaaggaac	360
agatgttaac	aaaacaaatt	aaggctgctg	gggaacctga	gtccatgtta	agcttggtt	420
gactgtaaag	aatttttttt	tttaatgcaa	gttagacatg	gagttagagg	gtcagataaa	480
taacgaagag	aattaagtta	gcgatagaaa	gatctaagga	tactagctcc	tgggcaccta	540
gggtgcaaac	tgacttggtg	cagcataagc	tgatgctgca	caggggaccc	aagccatgtt	600
gctacttgct	acttaaggca	ggaagcgcac	aaaggaagtg	atgaaagggt	attagcctgc	660
acattattta	cagcatgaga	gcctctccta	cggttctcaa	ccttcattag	gcctactgtg	720
atctantgat	ggntgtaccc	attcttttaa	ggcaaagatg	taaggattta	cagggaaaag	780
cttcggggtt	tatcaattca	ctatcatcaa	acacatattg	ng		822

&lt;210&gt; 226

&lt;211&gt; 498

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(498)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 226

anntaaacta	tgacctgatt	acgccaaact	ggtaccgagc	tcggatccac	tagtaacggc	60
cgccagtgtg	ctggaattcg	cccttttcgag	cgccgcgccg	ggcaggtagc	ctctcatata	120
tgcaaacaaa	tgacagactag	gcctcaggca	gagactaaag	gacatctctt	ggggtgtcct	180
gaagtgattt	ggacccctga	gggcagacac	ctaagtagga	atcccagtg	gaagcaaagc	240
cataaggaag	cccaggattc	cttgtgatca	ggaagtgggc	caggaaggct	tgttccagct	300
cacatctnat	ctgcatgcag	cacggaccgg	atgcgcccac	tgggtcttgg	cttccctccc	360
atcttctcaa	gcagtgtcct	tgttgagcca	tttgcacctt	tggctccagg	tggctccctc	420
agtctggact	ctaccacttg	ggtctccaga	ttttctgtta	cgtccttgtg	ggtcaggata	480
tttctggaag	tcaactccg					498

&lt;210&gt; 227



<211> 815  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(815)  
<223> n = A,T,C or G

<400> 227  
gggcctctna agctgctcga cggccgccat gtgatggata tctgcagaat tcgcccttag 60  
cgtggtcgcg gccgaggtac attgatgggc tggagagcag ggtggcagcc tgttctgcac 120  
agaaccaaga attacagaaa aaagtccagg agctggagag gcacaacatc tccttggttag 180  
ctcagctccg ccagctgcag acgctaattg ctcaaacttc caacaaagct gccagacca 240  
gcacttgtgt tttgattctt cttttttccc tggetctcat catcctgccc agcttcagtc 300  
cattccagag tcgaccagaa gctgggtctg aggattacca gcctcacgga gtgacttcca 360  
gaaatatcct gaccacacaag gacgtaacag aaaatctgga gacccaagtg gtagagtcca 420  
gactgagggg gccacctgga gccaaaggat caaatggctc aacaaggaca ctgcttgaga 480  
agatgggagg gaagccaaga ccagtgggc gcctccggc cgtgctgcat gcagatgaga 540  
tgtgagctgg aacagacctt cctggcccac ttctgatcac aaggaatcct gggcttcctt 600  
atggctttgc ttccactggg attcctactt aggtgtctgc cctcagggtt ccaaactcact 660  
tcaggacacc ccaagagatg tccttttagtc tctgctgagg cctantctgc atttggttgc 720  
atatatgaaa aggtacctgc ccgggccggc cgttcnaang gcgaatttca gcacactggc 780  
ggncgntact agtggatccc aactcggtac caagc 815

<210> 228  
<211> 512  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(512)  
<223> n = A,T,C or G

<400> 228  
annnnntttn acctannact atgacctgat tacgccaaact tgggtaccgag ctcggtatcca 60  
ctagtaacgg ccgccagtgt gctggaattc gccctttcga gcggccgccc gggcaggtac 120  
taggttttga aaaccaatag catgcacatg tgttgggctg aggttcatgt gtcagagact 180  
cagttgtaga aggaactttg aatctggcag gcacttaact gtggctgctc agaactaatg 240  
tatctggggc tgcttgagca ggggctgagg tcagaggcag ggagtgaagt ctccatcatc 300  
cttgactcag acccagctcc gcaggagctc catggtcatc cctggagctc atgtggagtg 360  
caaggtccgg gagtgggggc gctgacagaa acaaactctgg ggggatcagc cagggtcagc 420  
aggggacaga gatcatgtct tttagaagaa tgtgggcttc ctgacctata gaagggcagc 480  
tgttcacccc ctgcagatga tagcagggat ng 512

<210> 229  
<211> 815  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(815)  
<223> n = A,T,C or G

<400> 229  
gggcctnaga gcatgctcga cggccgccat gtgatggata tctgcagaat tcgcccttag 60  
cgtggtcgcg gccgaggtac tttttttttt tttttttttt ttcagagata ggttcttact 120  
atgctgccct ggctggagtg cagtggcttt cttaggggca atcacagctc actgcagcct 180  
ggaactcctg ggctcagcct cctaagtagt tgagactacc aatgcacgcc accatacctg 240  
gccttagata cccctgtat cctggaactc actccttata agagacactg aatgtggaag 300



tcttcgcaga	tattaagggc	actgcccagt	tcctgtcttt	gaattattgg	gccaacaaca	360
gaaagggcgt	cctgaggccc	cagatcatcc	ctgctatcat	ctgcaggggg	tgaacagctg	420
cccttctata	ggtcaggaag	cccacattct	tctaaaagac	atgatctctg	tcccttgcgt	480
accctggctg	atccccccag	atttgtttct	gtcagcgccc	ccactcccgg	accttgcact	540
ccacatgagc	tccaggggatg	accatggagc	tcctgcgagg	ctgggtctga	gtcaaggatg	600
atggagagct	cactccctgc	ctntgacctc	agcccctgct	caagcagccc	cagatacatt	660
agtctctgagc	agcccagtta	agtgcctgcc	agattcaaag	ttccttctac	aactgagctc	720
ctgacacatg	aaccttaagc	ccaacacatg	tgcattgctat	tgggttttgc	aaacctagta	780
cctgnccggg	cgggcccgttc	gaaanggcga	attct			815

<210> 230  
 <211> 502  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(502)  
 <223> n = A,T,C or G

tnnanctana	cttgacctga	ttacgccaac	ttggtaccga	gctcggatcc	actagtaacg	60
gccgccagtg	tgctggaatt	cgccctttcg	agcggccgcc	cgggcaggta	cacagagatg	120
cgggtccagct	gcaggctcgt	gtccccgtgg	taggtgccgg	tggggtcgat	gccatgttca	180
tcaactgatca	cctcccagaa	cttggcaccg	atctggtagc	cacactgacc	agcctggatg	240
tgcacgattt	ccctcatggt	taaaatttaa	tttttttgc	cgctcaagg	tatgtatggg	300
gcaagaaaat	aagtaatttt	ttttctccgc	aggtcgcagg	ctggaagggt	ggaatgcgcc	360
ccagaggctg	gagcagcgag	gtgcaaacgc	gacggcagga	aggttctgag	agccccgcgt	420
acctcggccg	cgaccacgct	aagggcggaat	tctgcagata	tccatcacac	tgcggccgct	480
cgagcatgca	tctagagggc	cc				502

<210> 231  
 <211> 817  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(817)  
 <223> n = A,T,C or G

nngggcctct	nnagctgctc	gacggccgcc	atgtgatgga	tatctgcaga	attcgccctt	60
agcgtgggtcg	cggccgaggt	acgcggggct	ctcagaacct	tcctgccgtc	gcgtttgcac	120
ctcgtgctc	cagcctctgg	ggcgcatcc	aaccttccag	cctgcgacct	gcggagaaaa	180
aaaattactt	attttcttgc	cccatacata	ccttgaggcg	agcaaaaaaa	ttaaatttta	240
accatgaggg	aaatcgtgca	catccaggct	ggtcagtgtg	gctaccagat	cggtgccaag	300
ttctgggagg	tgatcagtga	tgaacatggc	atcgacccca	ccggcaccta	ccacggggac	360
agcgacctgc	agctggaccg	catctctgtg	tacctgcccc	ggcggccgct	cgaaagggcg	420
aattccagca	cactggcggc	cgttactagt	ggatccgagc	tcggtaccaa	gcttggcgta	480
atcatgggtca	tagctgtttc	ctgtgtgaaa	ttgttatccg	ctcacaattc	cacacaacat	540
acgagccgga	agcataaaagt	gtaaagcctg	gggtgcctaa	tgagtgcgct	aactcacatt	600
aattgcgttg	cgctcactgc	ccgctttcca	gtcgggaaac	ctgtcgtgcc	agctgcatta	660
atgaatcggc	caacgcgcgg	ggagaggcng	nttgcgtatt	gggcgctctt	ccgcttnctc	720
gctcacttga	ctcgcttgcg	ctcggtcggt	cngcttgccg	cnanccggat	tcagcttact	780
taaaggcggt	aataccgggt	atccaccaga	attangg			817

<210> 232  
 <211> 481  
 <212> DNA  
 <213> Homo Sapien



&lt;400&gt; 232

```

actatgacct gattacgcca agcttggtac cgagctcggg tccactagta acggccgcca      60
gtgtgctgga attcgccctt tcgagcggcc gcccgggcag gtacaaattt gttgtgtttt      120
ttatgttcta ataatactga gacttctagg tcttaggtta atttttagga agatcttgca      180
tgccatcagg agtaaatatt attgtgggtc ttaatctgaa gttttcaagc tctgaaattc      240
ataatccgca gtgtcagatt acgtagagga agatcttaca acattccatg tcaaattctgt      300
taccatttat tggcatttag ttttcattta agaattgaac ataattattt ttattgtagc      360
tatatagcat gtcagattaa atcattttaca acaaaagggg tgtgaacctt agactattta      420
aatgtcttat gagaaaattt cataaagcca ttctcttggtc attcagggtcc agaaacaaat      480
t                                                                                   481

```

&lt;210&gt; 233

&lt;211&gt; 809

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(809)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 233

```

gggcctctnn agcatgctcg acggccgcca tgtgatggat atctgcagaa ttcgccctta      60
gcgtgggtcgc ggccgaggtta caaaagatac tgttcacccc attagagaac tgatttgaag      120
ttactcttcc ctgtgagggc tctgtcatct taactgtatt cacatacttt caactgttcc      180
ccttgctgct aacctcagggt tcttttagttc atctatctgg cagagctgat ttggggaaaa      240
caagacaaac cttgtcagggt tttcttaata aataagcagt tgctatgttt caagagtttt      300
agaaatgagc aataatcaag gaagaggaca acgattgcat acgtttataa tatttagaac      360
atcttttgcc acaataaaca ctggaaacca cccacttggtg gacaccaaac atttggattt      420
gtatattttg tggcattccc tcaactcta atctctcatcc ttaaaaattt tcagaaattt      480
ttgcagcaac aaacactgat tgcaacatat gatttaggggt agatttatga accatttttt      540
cactgaaata catcaacagg agtgagtagt ctgagtgcac accccagcat ggagaaaact      600
gtagtttaca gattcttctg gagcattttt atttctagat tgcagtggaa gtctaacccc      660
ccttggagat gtctgcctta aagggtcttt ggccagggtc ctctgtagag ccatagtcca      720
gatctactct atttgngtgc tccttacaac atcagaacag caactctcaa tccggatcat      780
cccagaatgc cgctgagtca cagcgtggg                                                                                   809

```

&lt;210&gt; 234

&lt;211&gt; 482

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(482)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 234

```

actatgacca tgattacgcc aagcttggtta ccgagctcgg atccactagt aacggccgccc      60
agtgtgctgg aattcgccct tcgagcggcc gcccgggcag gtactgaaaa gaagatagtg      120
ccatttgaaa caacagatgc atcttttata cattttcaca agttngtttt tcatattttt      180
aaaggcccca tttatctgta acagtgggtat ttttatttag agtatcggct acttaatata      240
tacatgcaac aatatatgct ttaatagtca ttttaacttt angaatattt catnacatta      300
agtgggttaag catagcggtta aaagagtggg atataaggaa tannaanntn tngaaaatac      360
gctgctannt tcatnngcan actatagtag aatggagatg cccataaaaag tgatcattgc      420
ccaactgaat tcctaccnng aactaacatg tgattctcaa gtggggganaa atattattaa      480
aa                                                                                   482

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&lt;210&gt; 235

&lt;211&gt; 474

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien



<220>  
 <221> misc\_feature  
 <222> (1)...(474)  
 <223> n = A,T,C or G

<400> 235  
 acttgacctg attacgccaa gcttgggtacc gagctcggat ccactagtaa cggccgccag 60  
 tgtgctggaa ttcgccctta gcgtgggtcgc ggccgaggta cattacttgg tggttaacatt 120  
 gttggcagtg gttagccctt ttcagaaagc aacttgctgt aagtcagggt gtccgttcca 180  
 accttcagct agtgaaaagg tagtaacaaa tggtaaacia gagaatgatt gtttaaacct 240  
 atctgtggac acttaatgca actgtttaaa aatgataatc acgagttatg tagcaacgtg 300  
 gaaatatatt tacagaacat taatggagaa gcaggacac gaagtattat atactacagt 360  
 tataactcaa cagtcattat atgccggtca tttaccagtc atttaaccag ttcattataa 420  
 ctgttttaaaa atatatatgc ttatagtcaa aagctgttgt ggtgttgttg ttgn 474

<210> 236  
 <211> 819  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(819)  
 <223> n = A,T,C or G

<400> 236  
 gggccttnna gctgctcgnc ggccgccagt gtgatggata tctgcagaat tcgccctttc 60  
 gagcgccgc ccgggcaggt actttttttt tttttttttt tttttatttt taactttatt 120  
 tttattgntg acactattac agatagaatg accacaacca tattaacaaa ccaaaaacct 180  
 gtgcacagaa acaagatgaa gaaaatatat caagatgtta aacacactct ttggatgggtg 240  
 aaaacatggg tgagtttctc ttctacattt ctgtaacttc aaagtttcta taatgaacac 300  
 atttcatata taatggaaat atatgtagta aaggtggact accaaaacac tagaatgatg 360  
 acctttcaag gaaaccgaaa caaaataacc ataatcccac aacaaccaca caactatttc 420  
 ttgnttttca tctttcttcc catctttgac atttatgcat acttatcact aacaccctaa 480  
 taatcacaga ctagtgcaca gatcaagatg ttaacagtta attgttgttg ggtgttgagg 540  
 atatgtgtga attttcttta ctgaatttcc aaagttttgt atgagtatgt attatatattg 600  
 taatggaaaa tacatacata aaatttatta ccaaaacacc aaagattatt taaggggaatt 660  
 tgagacaaaa tatttaacca aattcccaca atgacaacac tatttttagtt attttccaca 720  
 tcttttcatt taagacttta tgcacacata tttaacactg gtatcacaaag cgtggggcact 780  
 gaaacaagga tnganggaac nggatcagga tggttagccg 819

<210> 237  
 <211> 483  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(483)  
 <223> n = A,T,C or G

<400> 237  
 agcttgacct gattacgcca agcttgggtac cgagctcgga tccactagta acggccgccca 60  
 gtgtgctgga attcgccctt agcgtgggtcg cggccgagggt actaagctca gcatgtctca 120  
 tgggtcaatta ctgcgtatctt ccaaaaaatg tgttgttttg tcttgagaaa attcttttagc 180  
 cccttgacac cagaattatc tccactgtag aaaaaataga caattatagt ctaacaggta 240  
 aatcacaaaa attcttcagc cacacttcct gggttcaaat gtgggtttttc tactcagtaa 300  
 tattgttaacc ctgggcaagt tatttaactt gtctaagtct cagttttctcc atctgtaaaa 360  
 tgaggataat cacaatatc actacataat gttcttctga agatgtaatg agataatcca 420  
 tgnnaatat tcanacagca cataggaatg ggtcatttaa tgtttatcat tacttgccca 480  
 ttt 483



<210> 238  
<211> 815  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(815)  
<223> n = A,T,C or G

<400> 238  
gggcccntnn agctgctcgn cggccgccag tgtgatggat atctgcagaa ttgccctttt 60  
cgagcggccg cccgggcagg taccattatt ttccattcaa taccatatgt ctgaaaaata 120  
ggcaagtaat gataaacatt aaatgaccca ttccctatgt ctgtctgaat attttacatg 180  
gattatctca ttacatcttc agaagaacat tatgtagtag atattgtgat tatcctcatt 240  
ttacagatgg agaaactgag acttagacaa gttaaataac ttgccagggt ttacaatatt 300  
actgagtaga aaaaccacat ttgaaccacg gaagtgtggc tgaagaattt ttgtgattta 360  
cctgttagac tataattgtc tattttttct acagtggaga taattctggt gtcaaggggc 420  
taaagaattt tctcaagacc aaacaacaca ttttttggaa atacgcagta attgaccatg 480  
agacatgctg agcttagtac ctggccgcg accacgctaa gggcgaattc cagcacactg 540  
gcggccggtta ctagtggatc cgagctcggg accaagcttg gcgtaatcat ggtcatagct 600  
gtttctctgtg tgaaattgtt atccgctcac aattccacac aacatacgag ccggaagcat 660  
aaagtgtaaa gcctgggggtg cctaattgagt gagctaactc acattaattg cgttgcgctc 720  
actgnccgct ttccagtcgg gaaacctgtc gtgccagctg cattaatgaa tcggncaacg 780  
cgccggggag aggcngnttg cgtattgggc gctct 815

<210> 239  
<211> 483  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(483)  
<223> n = A,T,C or G

<400> 239  
actatgacct gattacgcca agcttggtag cgagctcgga tccactagta acggccgcca 60  
gtgtgctgga attcgccctt agcgtggctg cggccgaggt actttttttt tttttttttt 120  
ttttttttta gcgagcaagt atggnttatt acggacaaat ggtagaaaaa tgttactaat 180  
atccatagat aagttcctta agtcatgtag agagactgtt attaaaagt tgcgtgcat 240  
ttctattgaa tcaagaacta gctaccagtt acagtgcctt ctaaacacac agttagcttt 300  
gctttatcaa taaccaaata ataaactagg tcccaatggg tttgtccaca tntagattgt 360  
tcaggtgata aggaactctt ttatttgtgt gcttttagctt ttagttcttg gttatatctc 420  
caaatacgaa aaagctgaga ggctcctact gccccacaa agaaattaac agcaaacaga 480  
ctt 483

<210> 240  
<211> 815  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(815)  
<223> n = A,T,C or G

<400> 240  
gggcctntna gctgctcgac ggccgccatg tgatggatat ctgcagaatt cgccctttcg 60  
agcggccgcc cgggcaggta caaccatcca gcaggtecca gaacagtttt cttctgggct 120  
ccaattatga aatgggggtt ggtgtgtgct ggattggctg atatggccag acctgcagaa 180



aaacttagca	cagctcaatc	tgctgttttg	atggctacag	ggtttatttg	gtcaagatac	240
tcacttgtaa	ttattccaaa	aaattggagt	ctgtttgctg	ttaatttctt	tgtgggggca	300
gtaggagcct	ctcagctttt	tcgtatttgg	agatataacc	aagaactaaa	agctaaagca	360
cacaaataaa	agagttcctg	atcacctgaa	caatctagat	gtggacaaaa	ccattggggac	420
ctagttttat	atttggttat	tgataaagca	aagctaactg	tgtgtttaga	aggcactgta	480
actggtagct	agttcttgat	tcaatagaaa	aatgcagcaa	acttttaata	acagtctctc	540
tacatgactt	aaggaaactta	tctatggata	ttagtaacat	ttttctacca	tttgtccgta	600
ataaaccata	cttgctcgtc	aaaaaaaaaa	aannnnnaaa	aaaaaaagta	cctcggccgc	660
gaccacgcta	agggcggaatt	ccagcacact	ggcggccggt	actagtggat	ccgagctcgg	720
taccaagctt	ggcgtaatca	tgggtcatag	ctgggttcctg	tgtgaaatgg	tatccgntca	780
caattncaca	caacatacga	accggaagcc	ttaag			815

<210> 241  
<211> 486  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(486)  
<223> n = A,T,C or G

<400> 241						
agctatgacc	atgattacgc	caagcttggg	accgagctcg	gatccactag	taacggccgc	60
cagtgtgctg	gaattcgccc	ttagcggccg	cccggggcag	tacttcccac	cactggaaat	120
gtagcataa	aagaacttgg	agaggaaaaa	agtattaaca	aaactgcagt	ctgcactctt	180
taaacctgtt	taaggctctt	catcctgggt	agcaaaaggt	gtgaatgtaa	tgtgatggaa	240
tttaaaagtt	ttatgagacc	aggcacagt	gctcacgact	gtaattccag	cagtttagga	300
agccgaagt	tgcatatcac	ctgaggtccg	gagaccagcc	tgcccaacat	ggtgaaaccc	360
tgtctctact	agaaatacaa	aaattagcca	gggtgtggtg	cgggcgcctg	taatcccaac	420
tactcaggag	gctgaggcta	gagaatcact	tgaaccagc	angcggaggt	tgcggtgagt	480
cganat						486

<210> 242  
<211> 481  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(481)  
<223> n = A,T,C or G

<400> 242						
anttgcctg	attacgcaa	gcttgggtacc	gagctcggat	ccctagtaac	ggccgccagt	60
gtgctggaat	tcgcccttcg	agcggccgcc	cgggcaggta	catcagtgtt	cattttatta	120
tttcttacac	tgtcttcacg	acttacacat	aatattttgc	tagttttaaa	acataagatg	180
tgataataat	ctaaacagac	caaaggaaat	aatgaatat	gattaaaaaa	agacagagaa	240
taagccctgt	ctgatggaaa	gcataacaaa	gcaggtagaa	caactgtcag	gaatgcttga	300
tccaataaag	ctaggtttgt	gatccacaac	acttcagcat	tttaatgtga	tttttgatgt	360
tngttttttg	caatggtgat	tctcagttgc	ctccctcctg	tgtctttaca	agctgaaatc	420
aagtgaagct	acttctgact	ttttctaaaa	cttaaaccga	acatgaaggt	ctgcgtattc	480
t						481

<210> 243  
<211> 824  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(824)



<223> n = A,T,C or G

<400> 243

cnanngggccc	tntnnagcat	gctcgacggc	cgccatgtga	tggatatctg	cagaattcgc	60
ccttagcggtg	gtcgcggccg	aggtacataa	tacttttagat	aaacatTTTT	agaataactt	120
tattataact	cgataagcaa	aataatccaa	acctttatac	atttctacaa	ggatagtcac	180
atatgtcaat	ttttcgggtt	cctctcggtg	ctattttgtc	tcctgagccg	gcccccttcc	240
agctgacacg	tgtgctccgt	gttctccccc	aatagtggtg	cctggcctga	gtccatgccg	300
ccgtgagcct	cctttctgtg	cttacaacag	cagcctgcct	gatgtcagtt	atggactatt	360
ctttctttca	gcctcatttc	agggctcctc	gcctcttaga	gctgctgctg	tagcttagct	420
agagacccgc	tgctgttgca	tcatggaaaa	gtgccacata	cgtgcacatg	tgaaagaata	480
cgcagacctt	catgttgggt	ttaagtttta	gaaaaagtc	gaagtagctt	cacttgattt	540
cagcttgtaa	agacacagga	gggaggcaac	tgagaatcac	cattgcaaaa	agcaaacatc	600
aaaaatcaca	ttaaaatgct	gaagtgttgt	ggatcacaaa	cctagcttta	ttggatcaag	660
cattcctgac	agttgttcta	cctgcttttg	ttatgctttc	catcagacag	ggcttattct	720
ctgtcttttt	taatcatatt	catttatattc	ctttggctctg	tttagattat	tatcacatct	780
tatgttttta	aactagcaaa	atattatgtg	taagtcatga	agnt		824

<210> 244

<211> 483

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(483)

<223> n = A,T,C or G

<400> 244

actatgacct	gattacgcca	agcttggtac	cgagctcgga	tccactagta	acggccccgc	60
agtgtgctgg	aattcgccct	ttcgagcggc	cgccccggga	ggtacgcggg	ggcaggggtg	120
ttaatcgctc	ccaagcgga	cttactgcaa	gctatcaaat	ctgaggtctt	attttgttga	180
gtcgaaagt	aaattttcct	ttggccaacg	tgacagggct	ttgtttggtg	gtaaaaagg	240
ttactagaca	cccctcattc	cactgccact	ggagggcgca	tttctcagct	cttgcctctc	300
aaacctgctg	aaaggaattc	ctagatctaa	acaccagcat	ttgacattgt	gcagcaana	360
aatggttatg	ganaagccca	gtccgctgct	tgtangggcg	gagtttgtga	ggcaatatta	420
tactttgctg	aataaagctc	cggaaatatt	acacagggtt	tatggcagga	attcttccta	480
tgt						483

<210> 245

<211> 822

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(822)

<223> n = A,T,C or G

<400> 245

ttggggccnt	nnagcatgct	cgacggccgc	catgtgatgg	atatctgcag	aattcgccct	60
tagcgtggtc	gcggccgagg	tacttcccct	cgaaacataa	tcggttttgc	aattaagatt	120
ctctgaactg	gttcagagtc	atcaaaaacc	acaaaaccaa	aatttggaag	ctttcccca	180
acacccttgg	tattgatgag	aagttccaca	acgtttccaa	aactcatgaa	gaattccttt	240
agctcatttt	catcaatata	atgtggcaag	ttaccaacaa	aaagttgatg	actatctgga	300
tagcgaatta	ttctacgggt	gtcagagtc	ttctgttcca	tatctcctct	gcctgggtctt	360
ggctcctctag	gaggaaaacc	aggtcggtct	ctaggtcggt	gttcacgcac	acgaggtggc	420
tgagattgaa	cttctggttt	agcttcgact	cttggctttg	gtggttcttg	tggcagagaa	480
acaggttctg	ccggaggagg	agtagtagat	ttctcctcta	gttcttctaa	gttcttctcc	540
tccacttggtg	gtttcagctc	ttcagttctt	gtttcagatt	ctggctcagg	ttcaggttca	600
tgagaggatt	cttccaaagg	ctcctctatg	ccattagtc	caggggtgagc	ttcatagtaa	660
ccactgttag	cattttcttg	cacaggttca	ggagatgggt	gnctttcttc	ttggtcctct	720



tctacttcat	cttctgattc	ttcatcaaag	ttcangctca	gaatcaccaa	acacttnatc	780
ttcataacga	aacatatcat	tgtgaacata	aaattttattt	gg		822

<210> 246  
 <211> 482  
 <212> DNA  
 <213> Homo Sapien

<400> 246						
actatgacct	gattacgcca	agcttggtac	cgagctcgga	tccactagta	acggccgcca	60
gtgtgctgga	attcgccctt	agcgtggctg	cggccgaggt	actttttttt	tttttttttt	120
aaccaactca	atatgtgttt	gatgatagt	aattgataaa	accggaagct	tttccctgta	180
aatctttacat	ctttgccttt	aaagaatggg	ttacaacccat	cactagatca	cagtagtgcc	240
taatgaaggt	tgagaaccgt	aggagaggct	ctcatgctgt	aaataatgtt	gcaggctaata	300
aacctttcat	cacttccttt	gtgcgcttcc	tgcccttaagt	gacaagtagc	aacatggctt	360
gggtcccttg	tgcagcatca	gcttatgctg	ccacaagtca	gtttgcaccc	taggtgcccc	420
ggagctagta	tccttagatc	tttctatcgc	taacttaatt	ctcttcgtta	tttatctgac	480
cc						482

<210> 247  
 <211> 816  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(816)  
 <223> n = A,T,C or G

<400> 247						
gggccttnga	gctgctcgan	cggccgccat	gtgatggata	tctgcagaat	tcgccctttc	60
gagcggccgc	ccgggcaggt	actttaattt	tgcttggtca	aatgatctac	acttacattt	120
tgcaaatctt	ttttttaaat	tttttaaat	ttatattttt	tttccagcca	actcaaggcc	180
aaaaaaaaatt	tcttaatata	gttattatgc	gaggggaggg	gaagcaaagg	agcacaggta	240
gtccacagaa	taagacacaa	gaaacctcaa	gctgtgaggt	caatttgtaa	ttaaaagaat	300
actaagatta	gatgaacaca	acactcagaa	atactctagg	agggctgaaa	agaaggaac	360
agatgttaac	aaaacaaaatt	aaggctgctg	gggaacctga	gtccatgtta	agcttggggt	420
gactgtaaaag	aatttttttt	tttttaatgc	aagtttagaca	tggagttaga	gggtcagata	480
aataacgaag	agaattaaat	tagcgataga	aagatctaag	gatactagct	cctgggcacc	540
taggggtgcaa	actgacttgt	ggcagcataa	gctgatgctg	cacaggggac	ccaagccatg	600
ttgctacttg	tcacttaagg	caggaagcgc	acaaaggaag	tgatgaaagg	ttattagcct	660
gcaacattat	ttacagcatg	agagcctctc	ctacgggtct	caaccttcat	taggcactac	720
tgngatctag	tgatggttgt	acccattctt	taaaggcaaa	gatgtaagat	ttacagggaa	780
aagcttcggg	ttttatcaat	cctatcatca	acacng			816

<210> 248  
 <211> 482  
 <212> DNA  
 <213> Homo Sapien

<400> 248						
actatgacct	gattacgcca	agcttggtac	cgagctcgga	tccactagta	acggccgcca	60
gtgtgctgga	attcgccctt	tcgagcggcc	gcccgggcag	gtactctttg	ggcattaatg	120
ccttctctgt	aatttatatct	cgtttttgct	tggcagtgac	ctaccagta	attgcacgt	180
gtattgccat	gaaaggtaaa	cacattgtga	actgaactta	ccaagcagat	tctgtgagaa	240
agcactgggt	ggggctgaac	actggtgaca	catcattttt	attggaagag	tattaactgg	300
tgctcttct	gaaacacacc	aacctatatt	cctctgctcc	cccaaagctg	tttctgatcc	360
tgctgggagc	aactaactag	ttattatgca	catctgctcc	agaccagct	ctttaacttc	420
atggttttac	agcttggttt	ttctttttct	tttcttttct	ttttttttta	aaaagcacct	480
tt						482

<210> 249



<211> 821  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(821)  
<223> n = A,T,C or G

<400> 249  
ggcctctnag ctgctcgacg gccgccatgt gatggatatc tgcagaattc gcccttagcg 60  
tggctcgccg cgaggacttt tatgaatttg gggtaggtaa agtttgtatt ttatcttaaa 120  
catgttttct atgatgaaaa ggaacaaaat tgtaaaaaat gaggatcttc cctctaaagg 180  
tttcaaagcg ttagaggaca tgcaattaaa tgttgttaca ccttgaacaa tgagcctctt 240  
gagttttagt gaagggcaga ccggctccat taccaacaac tttggggtag aaagcacagc 300  
tctcctcttt taccagcac aaatgcaatc ctgattataa aactatttgt gtttctaaat 360  
acaaccaaag gaaatcttag agaaacataa attagaaacc tcttttatta aggggaaaca 420  
acaaaaaaag gtgctttttt aaaaaaaaag aaaagaaaag aaaaagaaaa aacaagctgt 480  
aaaaccatga agttaagag ctgggtctgg agcagatgtg cataataact agttagttgc 540  
tcccagcagg atcagaaaca gctttggggg agcagaggaa tatgggttgg tgtgtttcag 600  
aagaggcacc agttaatact cttccaataa aaatgatgtg tcaacagtgt tcagccccaa 660  
ccagtgcctt ctcacagaat ctgcttggtg agttcagttc acaatgtgtt tacctttcat 720  
ggcaatacac gatgcaatta ctgggtaggt cactgccaaag caaaaaccga agatntaatt 780  
tcccagagaag gcattaatgc ccaaagagta cctgccccgg n 821

<210> 250  
<211> 481  
<212> DNA  
<213> Homo Sapien

<400> 250  
acttgacctg attacgccaa gcttggtacc gagctcggat ccactagtaa cggccgccag 60  
tgtgctggaa ttgcgcccta gcgtgggtcg gcccgaggta caacattgat gttttaatat 120  
agaatgaagt gcttgctaca cagtcaagta aatcaacata tccattacca cacacacttt 180  
tcttttctga ggagcggtaa gagtacttta attttgcagt tattgattaa ttaaaaaaca 240  
cagttgtttt cagcatttcc tagttacagt agtgcatagg aaattccatt ctaaacaag 300  
aagtaattaa tgaaataaca acacacctta acattttaca ttgatagggt acagtttaca 360  
aggtgccttc acatacatta ttccatttga ttcttacaac aagcagaaaa aacagtggga 420  
aagatttttt ttttcaggct tacaatgagt attttcaggc caatgggcag ttaacacaag 480  
g 481

<210> 251  
<211> 803  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(803)  
<223> n = A,T,C or G

<400> 251  
gggccttnna gctgctcgnc ggccgccagt gtgatggata tctgcagaat tcgccctttc 60  
gagcggccgc ccggcaggta cactaaatta gaatatTTTT aaagtatgta acattcccag 120  
tttcagccac aatttagcca agaataagat aaaaacttga ataagaagta agtagcataa 180  
atcagtattt aacctaaaat tacatatTTG aaacagaaga tattatgtta tgctcagtaa 240  
ataattaaga gatggcattg tgtaagaagg agccctagac tgaaagtcaa gacatctgaa 300  
tttcaggctg gaaaactatc agtatgatct cagcctcagt tctcttgtct gtaaaatgga 360  
agaactggat taggcagttt gtaagattcc tcctaacttt cacagtcgat gacaagattg 420  
tctttttatc tgatatTTTg aagggtatat tgctttgaag taagtctcaa taaggcaata 480  
tatttttaggg catctttctt cttatctctg acagtgttct taaaattatt tgaatatcat 540  
aagagccttg gtgtctgtcc taattccttt ctcactcacc gatgctgaat acccagttga 600



atcaaactgt	caacctacca	aaaacgatat	tgtggcttat	gggtattgct	gtctcattct	660
tggtatattc	ttgtgttaac	tgcccatggc	ctgaaaatac	tcattgtaag	cctgaaaaaa	720
aaaatctttc	ccactgggtt	ttctgcttgg	tgtaagaatc	aaatgaaata	tggtatgtgaa	780
agcccttgta	actgtaccta	tcn				803

<210> 252  
<211> 500  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(500)  
<223> n = A,T,C or G

<400> 252						
tacnccaann	tttgacctga	ttacgccaaag	cttggtaccg	agctcggatc	cactagtaac	60
ggccgccagt	gtgctggaat	tcgcccttag	cgtggctcgcg	gccgaggtag	agatgaaaag	120
aagtgggtgt	aatgacctac	ctgcaccgat	aataaagcaa	atagaatgat	tatatacatt	180
aagatcagct	tgattaaaaa	taaattttat	atgcaggtaa	attgatcatt	aaaatgaacc	240
cagtttaact	cttctcgtgt	gttggttttaa	ggtaggccac	tgaaacgcag	agataaaaac	300
anatggggaa	aattaaaagc	naagaaaaaa	attacaaaac	aagtgggtta	agccatggat	360
tcttaaccac	accctggact	aaatgtgcc	aagtgccttg	aaaatttcca	ctgccagcna	420
tggnctggt	agtcantttg	gcataaaaaa	ggtggttnga	aaaaaaactn	acctttttaa	480
ttccacactt	ggatctggcn					500

<210> 253  
<211> 831  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(831)  
<223> n = A,T,C or G

<400> 253						
gnnnnnnnnn	gnnnnnnnnn	ntttnnantg	ggcctctnna	gcatgctcga	cggccgccat	60
gtgatggata	tctgcagaat	tcgccctttc	gagcggccgc	ccgggcagg	actatatttg	120
tgagcctagg	gtaggggcac	tgctgcaact	tctgctttca	tcccatgcct	catcaatgag	180
gaaaggggaa	aaagtgtata	aaactgccac	aattgtat	taattttgag	gtatgatatt	240
ttcagatatt	tcataatttc	taacctctgt	tctctcagta	aacagaatgt	ctgatcgatc	300
atgcagatac	aatgtttgga	tttgagaggt	tagttttttt	tctacactt	ttttttgcca	360
actgacttaa	caacattgct	gtcaggtgga	aatttcaagc	acttttgcac	atttagttca	420
gtgtttgttg	agaatccatg	gcttaaccca	cttggtttgc	tatttttttc	tttgctttta	480
attttcccca	tctgatttta	tctctgcgtt	tcagtggcct	accttaaaac	aacacacgag	540
aagagttaaa	ctgggttcac	tttaatgatc	aatttacctg	catataaaat	ttatttttaa	600
tcaagctgat	cttaatgtat	ataatcattc	tatttgcttt	attatcgggtg	caggtaggtc	660
attaacacca	cttcttttca	tctgtacctc	ggccgcgacc	acgctaaggg	cgaattccag	720
cacactggcg	gcccgttact	agtggtatccg	agctcggtag	caagcttggc	gtaatcatgg	780
gtcatagctg	tttctgtgtg	gaaattggga	tccgntcaca	attcccacan	g	831

<210> 254  
<211> 514  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(514)  
<223> n = A,T,C or G



<400> 254  
cacttgacnt gatcgccaac ttggtaccga cntcgnntcc attattaccg gacacttgac 60  
tgatacgcca ncttgggtacc gactcggacc actagtaacg gncgccagtg tgctggaatt 120  
cgcccttgag cggccgcccg ggcagggtacc tctaattgcag gctaataaat ttaagctaatt 180  
tatttatgct acctgtgctg tgggtggttc ctatcagcag ccaaatataa cctcacagtt 240  
gttttgctgt ttttgctttc acaaaagagc tattaaccaa cttaaaaatg ttttttgatt 300  
gaaggatgct taggggatga gaggatatca acaatataag cccatgcca atccccattt 360  
cttatcatta aaactgacct gacattaaag caatgcttaa ttttttacca taagagtga 420  
attttgagat tataatttta aagtgtaaaa tatttacact taaattacac ttataatttt 480  
aaagtgtata atatttacac agattaaaat aaaa 514

<210> 255  
<211> 830  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(830)  
<223> n = A,T,C or G

<400> 255  
nnnnnnngn nnnnnnnann nnnnnnnant gggcctctnn agcntgctcg acggccgcca 60  
tgtgatggat atctgcagaa ttcgccctta gcgtggctcg ggccgaggta cttttttttt 120  
ttttccagat gaagtcttgc tctgttgccc aggtctggagc gcagtggcac aatctcagct 180  
cactgaaacc ttgcgccctt gggctcaagc tagccagtct tttagtaaac atttagtcaa 240  
caaatctgca attataacgg aggtttgatt tttgttgtt ttgtttgtt ttaagtcact 300  
ctgtgtttgt aatatcaatt tacttttcaa gtttagaatg ttttgcttca ttgtttccca 360  
tattttatatt taatctgtgt aaatattata cactttaaaa ttataagtgt aatttaagt 420  
taaatatttt acactttaaa attataatct caaaatttca ctcttatggt aaaaaattaa 480  
gcattgcttt aatgtcaggt cagttttaat gataagaaat ggggatttgg catgggctta 540  
tattgttgat atcctctcat ccctaagca tccttcaatc aaaaaacatt ttaagtgtg 600  
ttaatagctc ttttggtgaa gcaaaaacag caaaacaact gtgagggtat atttggtgc 660  
tgataggaaa ccaccacagc acaggtagca taaataatta gcttaaattt attagcctgc 720  
attagaggta cctgcccggt cnggccgtca agggcgaatt ccagcacact ggcggccgtt 780  
ctagtggatc cgactcggtc cagcttgctg aatcatggtc atagctgttg 830

<210> 256  
<211> 524  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(524)  
<223> n = A,T,C or G

<400> 256  
cnnnnnnnna ncntnanacn nnnnnntn nnnnnnag nnnnnnnnnn nnnnnnnnan 60  
actatgactg attacgcan cttggtaccg actcggatcc actagtaacg gccgccagtg 120  
tgctggaatt cgcccttagc gtggctcgcg ccgagggtaca ttacttggtg ttaacattgt 180  
tggcagtggt agccctttt cagaaaagcaa cttgctgtaa gtcagggtgt ccgttccaac 240  
cttcagccag tgaaaaggta gtaacaaatg gtaacaaga gaatgattgt ttaaacctat 300  
ctgtggacac ttaatgcaac tgtttaaaaa tgataatcac gagttatgta gcaacgtgga 360  
aatatattta cagaacatta agtggagaaa gcaggacacg aaagtatatt tatactacag 420  
ttataactca acagttcatt tatatgctgn tcatttaaca gttcatttaa acagttcatt 480  
ataactgttt aaaaatatat atgcttatag tcaaaagctg ttgg 524

<210> 257  
<211> 814  
<212> DNA  
<213> Homo Sapien



<220>  
 <221> misc\_feature  
 <222> (1)...(814)  
 <223> n = A,T,C or G

<400> 257

ntgggcctct	agaagcatgc	tcgagcgggc	gccagtgtga	tggatatctg	cagaattcgc	60
ccttgagcgg	ccgcccgggc	aggtactttt	tttttttttt	tttttttttt	tttgatat	120
atttttaact	ttatttttat	tgntgacact	attacagata	gaatgaccac	aaccatatta	180
acaaaccaa	aacctgtgca	cagaaacaag	atgaagaaaa	tatatcaaga	tgtaaccac	240
actctttgga	tggtgaaaac	atgggtgagt	ttctcttcta	catttctgta	acttcaaagt	300
ttctataatg	aacacatttc	atatataatg	gaaatatatg	tagtaaaggt	ggactaccaa	360
aacactagaa	tgatgacctt	tcaaggaaac	cgaaacaaaa	taaccataat	cccacaacaa	420
ccacacaact	atttcttgct	tttcatcttt	cttcccatct	ttgacattta	tgcatactta	480
tcactaacac	cctaataatc	acagactagt	gcacagatca	agatgttaac	agttaattgt	540
tggtgggtgt	tgggaatatg	tgtgaatttt	ctttactgaa	tttccaaagt	tttgtagag	600
tatgtattat	atgtgtaatg	gaaaatacat	acataaaaatt	tattaccaa	acaccaaaga	660
ttattttaagg	aatttgagac	aaaatattta	accaaattcc	cacaatgaca	acactatttt	720
agttattttc	cacatctttt	catttaaaga	ctttatgcac	acatatatta	cactgntatc	780
acaagcgtgt	gcactgnaac	aggattgagg	aaan			814

<210> 258  
 <211> 474  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(474)  
 <223> n = A,T,C or G

<400> 258

acagctatga	cctgattacg	ccaagcttgg	taccgagctc	ggatccacta	gtaacggccg	60
ccagtgtgct	ggaattcgcc	cttagcgtgg	tcgcggncca	ngtacattat	ttggaggact	120
taaaatctgn	atgtggacat	ggtcccaact	tantgtccgt	taactagtta	tccaaattgt	180
aanagctaca	gaaaagccag	ttgaggggta	antgtgcctg	gntcacacag	cctgcaccct	240
gtcacctcgg	caatgagcca	gtgtggggca	ctggggactt	ctaacccttg	gattgctctt	300
tttgacctgt	gcataccttc	taattgnaaa	atatatttca	gaccgagagt	acntgcccgg	360
gcggccnctc	aaaaggcgca	attctgcaaa	tatccatcac	atggcgggccg	ntngagcatg	420
catctaggag	ggcncaattc	ccctatagng	agtngtatta	caattcactg	gcnc	474

<210> 259  
 <211> 809  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(809)  
 <223> n = A,T,C or G

<400> 259

ntgggcccnt	agangcatgc	tcgncggccg	ccatgtgatg	gatatctgca	gaattcgccc	60
tttcgagcgg	ccgcccgggc	aggtactcac	ggtctgaaat	atattttaca	attagaaggt	120
atgcacaggt	caaaaagagc	aatccaaggg	ttagaagtc	ccagtgcccc	acactggctc	180
attgcccagg	tgacagggtg	caggctgtgt	gagccaggca	cacttacccc	tcaactgggc	240
ttctgtagct	ttacaatttg	gataactagt	tagcggacag	tagttgggac	atgtcacata	300
cagatttgag	tcctccaata	atgtacctcg	gccgcgacca	cgctaagggc	gaattccagc	360
acactggcgg	ccgttactag	tggatccgag	ctcggtacca	agcttggcgt	aatcatggtc	420
atagctgttt	cctgtgtgaa	attgttatcc	gtcacaaatt	ccacacaaca	tacgagccgg	480
aagcataaag	tgtaaagcct	ggggtgccta	atgagtgagc	taactcacat	taattgcgtt	540



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gcgctcactg cccgctttcc agtcgggaaa cctgtcgtgc cagctgcatt aatgaatcgg      600
ccaacgcgcg gggagaggcg gtttgcgtat tgggcgctct tccgcttcc tgcctcactga      660
ctcgcgtgcgc tcggtcgttc ggctgcggcg agcgggtatca gctactcaaa ggcggtataa      720
ccggtatnca cagaatcang ggatacgcag gaaagaacat gtgagcaaaa ngccacaaaa      780
ggccaggaaac cgtaaaaagg ccgcgtttg      809

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<210> 260
<211> 713
<212> DNA
<213> Homo Sapien

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<220>
<221> misc_feature
<222> (1) ... (713)
<223> n = A,T,C or G

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<400> 260
ctctttaaac gccagctcga ntccganntc tatccntgac aannnnngtn ccggnetgga      60
attcgnccct tgcagcggcc gcccgggcag gtacttgagt tcatgggcat ctctcccgcc      120
gcctctcagc ctatctgcac catgtctcac acgttcagtt gcagctctta ccgttttgaa      180
ggcgcacgtg ggcaagaagt cctgggcagc acaagaaagt caatcacgtt gagacagaga      240
gagcaggaga ggaagtgggc ccagtagaa gtgggcgaga gagcgttggg tgggaacgtg      300
gcacgagaga gagaaattat gagattgaga gagagagaga gagagagaga gagagagaga      360
gaaagagana ganagaggga aaganaaaga gacagagaaa agaaactatt gttggttaaa      420
atgccagcgg aaagtccatg ggggtgaatg agtccggcaa tggncangga gttagcagct      480
tggcgtagtg tctttcactg ntttggtgtg cttgagaata gcattcnacn ccgactgttg      540
ttccccanca gacttttagnc ngttgccng ncttgaattg ccggaccaag gttaacatag      600
gcttttcggn tctnaatatt tttggggctn gaatantcgg aaccttttgg gctgggccat      660
ttaccgcgntn cnnctggtt nnnacatttt tntcggntaa tcccgccctt tng      713

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```

<210> 261
<211> 722
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1) ... (722)
<223> n = A,T,C or G

```

```

<400> 261
acgcanttag gtaccagact cggatcccta gtaacggccg ccagtgtgct ggaattcgcc      60
cttagcgtgg tcgcggcccc aggtactcct cagccatgcc gaaggctctc ttccgggact      120
cttcgatggc agacagcagg gcattgtcct tctcattctt caggaagccc tgcagctctt      180
aaattttaagg agttacagaa cggtcgatgc tgnccatcac tgcagctctt ccaaaccctc      240
ttatatgaga tgagctctgt cggaaccagt gctcaagttt tccccacccc aaactgcctg      300
aattgagggg tgggggtggg gagaaggaca gagagaagag aaaaagagag aaagaagana      360
aaggaaaaga acaaccctc tgcaagtgtc gatgtgactg aagcactaaa gactcaaatt      420
aaacaatgaa gattgcaggg tccctttaaa aagggtgcac tgcagncccc ngagcacanc      480
natcccattc gnttgncccg ctncacanat tctagagaan tcnnccatca tgtttgaaan      540
gcncaaaaant gatgggannt cccgnntacg cggggactta attctgcctt gggaaatcaa      600
ggaanacttt gnttggangc ggcanttnaa anntggcctt aagaangnng tnggaatttg      660
ttggccaaac nantngaaag gtntcccgcc cgatnggtcc ctgattttta aggatttnaa      720
ng

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<210> 262
<211> 705
<212> DNA
<213> Homo Sapien

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<220>
<221> misc_feature

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<222> (1)...(705)

<223> n = A,T,C or G

<400> 262

acgcttttaa	cncagcttg	gtaccgagct	cggatcccta	gtaacggccg	ccagtgtgct	60
ggaattcgcc	cttgccgccc	gggcaggtag	ctgatatttt	gaacttttaa	ttgctatcaa	120
atttcagctc	tggttttatg	cattgttgta	atttctcagt	gaatcccagt	gcttctttcc	180
ttcttgaaaa	atgccatttc	gcccaggcgc	ggtggctcat	gcttgtaatc	ccagcacttt	240
ggtaggccga	ggtgggtgga	tcagctgagg	tctgtagttc	aagaccagcc	tggctaacat	300
gatgaaaccc	tgtctctacc	aaaaatacaa	aaaaaaacta	gccaggcatg	gtgttgtag	360
cctgtaatcc	cagctactca	ggaggctgag	acaggagaat	cgcttgaacc	tgggaggtgg	420
aggttgtagt	gagccaagat	cgcgccactg	cactncaacc	tgggcaacag	agtgagactc	480
catctcaaaa	naannaaaaa	ggaaaatgcc	atttcttggt	cccantgcca	atatgcacca	540
agaatgttng	taggaactac	tttggctctg	ctgcagaagt	tcttaatcta	gcattaaaaa	600
tccaacggtt	gatttgatct	cttaaaaatg	ttttcnnant	ttgganctga	aattgagnat	660
aaattacctt	tgcnnntnaa	ttcaaaaangt	tnaacctnnt	tnann		705

<210> 263

<211> 656

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(656)

<223> n = A,T,C or G

<400> 263

acncgcttgt	accgagctcg	gateccctagt	aacggccgcc	agtgtgctgg	aattcgccct	60
tagcgtggtc	gcggcccgag	gtaccgcggg	ggagaacgcc	agggagctgt	gagagtgtgc	120
agtcgcgttc	ctgctgtccg	gacacttttt	tcctctactg	agactcatct	ggtagatccg	180
caggccagtc	ctcccagggg	ctgaagtgtg	gaaatatggg	ttttctaaga	agattaatct	240
atcggcgtag	accaatgac	tatgtagaat	cttctgagga	gtccagtgat	gagcaacctg	300
acgaagtggg	atcaccaact	caaagtcagg	attctacacc	tgctgaagag	agagaggatg	360
agggagcatc	tgcagctcaa	gggcaggagc	ctgaagctga	tagccaggaa	ctggttcagc	420
caaagactgg	gtgtgagctt	ggagatgggt	ctgataccaa	gagggntnig	ctgcgaaatg	480
aagagcagat	gaaactgccc	gnagaaggcc	agacctgann	cgatagcagg	acagttcccc	540
gaaactgggt	tagcgcgaat	gtctgtgtca	gagtggcctg	ccaatcaagg	agtgaacctt	600
gggaataaag	atccagctta	aagannccct	ganggttagt	gtctngtgaa	ttncct	656

<210> 264

<211> 752

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(752)

<223> n = A,T,C or G

<400> 264

ggnttgaang	tatacgactc	nctanggcga	attgggccct	ctagatgcat	gctcgagcgg	60
cccgccagtg	tgatggatat	ctgcagaatt	cgcccttagc	gtggctcgcg	ccgaggtacc	120
tttgataatt	cctagacctc	tatttttcatt	ctgtgtatta	atgtgaataa	cagatggata	180
ttttaataatt	taaggcagat	ggtaaacctt	cctataggct	ttgtgagact	tcgtcttata	240
ggctgaacac	cattcacaaa	atgtaataat	gcttcattcc	ttcaggttga	ggtaaagaac	300
ttgagcaact	ggattagcaa	agctgcaaag	aatgaaatgt	ggcctaagat	gtaattatgt	360
tctctgccct	tcctttgggc	cagggtagtt	ttgcacttga	cacaatggaa	aataggccat	420
aaagcctgaa	aataaaaatgt	tctaaacccc	aatctcacag	cacttttagta	ggcttttcac	480
taggcattct	taaagtattt	tcaacaaaat	actaattaag	ctaccacttc	aaaagagctt	540
caaggaaaag	ctctgctttc	ttataaaatc	tttttgagac	agagtttccg	ctcttgtag	600
cacaggctgg	agtgcaatgg	ccgtgatctc	gactnaaccg	naaccttcgg	cctgctgggt	660



tcaagtgatt ctctagncct caagcttctg agtaggttgg gattacaggc gcccggncaa 720  
ccacacctgg gctaaatttt ggatttctan gn 752

<210> 265  
<211> 747  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(747)  
<223> n = A,T,C or G

<400> 265  
gngntttcnc nnngcgctct anagcatgct cgagcggccg ccagtgtgat ggatatctgc 60  
agaattcgcc cttagcgtgg tcgcgccga ggtaccttg atnattccta gacctctatt 120  
ttcattctgt gtattaatgt gaataacaga tggatattgt aatatttaag gcagatggta 180  
aactttccta taggtcttgt gagactnct cttataggct gaacaccatt nacnanntgt 240  
antaatgctt nattccttca ggcngaggtn nanaacttga gcacctggat tagcagcagc 300  
tgcgaagaat gaaatgcngc ctaacatgta attatgnatc tctgnccttc ctttgggcca 360  
gggtagtnat gcnc tagaca cantggatga tangccatna agcctgannn tgnaatgatc 420  
taaaccnnaa tctnnacaga ctttattagg ctantcacta ggcattctta agagtnggtt 480  
cccnttaata ctagncaacc nccactcca aaanacttc aagganaagc tntgntntnt 540  
tanaaaatct tttcgnnaca cantttnacn cttggcgenc angctggant gcaatggccg 600  
tgatctctac tcacccgaan cctcngactg ctgagttcaa gtgattgtct gnccttanct 660  
ctccgggacc angnttnggg attancaagc ctgcggggca annacagggtg nctaattgnt 720  
tgcattngcn taaaatnagg acaccng 747

<210> 266  
<211> 738  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(738)  
<223> n = A,T,C or G

<400> 266  
cgmnntgaa ggntacgact cactataggg cgaattgggc cctctagatg catgctcgag 60  
cggccgccag tgtgatggat atctgcagaa ttcgcccttt cgagcggccg cccgggcagg 120  
tacagctgaa gtttgataac aaagaaatat atataagaca aaaatagaca agagttaaca 180  
ataaaaacac aactatctgt tgacataaca tatggaaact ttttgtcaga aagctacatc 240  
ttcttaactc gattgtccaa atcattaaaa tatggatgat tcagtgccat tttgccagaa 300  
attcgtttgg ctggatcata gattaacatt ttcgagagca aatccaagcc attttcatcc 360  
aagtttttga catgggatgc taggcttctg gtttccattt gggaaatgta ttcttatagt 420  
cctgtaaaga ttccacttct ggccacactt cattattggg agtgcccaa gctctgaaat 480  
cctgaagagt tgatcaattc tgaatcccat ggaaaagtgg ttcttagtgc tagtcaacaa 540  
atatngngc ctatactcca aaggtcactt ggagttgagt natggagctg accccagcat 600  
acttttggaa aactggacca agtggttgca ccaccnttaa aaaattttaa accggnngta 660  
ttttaataaa ggtggaagaa accttttctt tttttattta aggaattcac ttagcnctta 720  
ctaaattcat ggtggggg 738

<210> 267  
<211> 731  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(731)  
<223> n = A,T,C or G



```

<400> 267
gngnnntttgn aagggccctc tagatgcatg ctcgagcggc cgccagtgtg atggatatct 60
gcagaattcg cccttttcgag cggccgcccc ggccaggtaca gctgaagttt gataacaaag 120
aaatatatat aagacaaaaa tagacaagag ttaacaataa aaacacaact atctgttgac 180
ataacatatg gaaacttttt gtcagaaagc tacatcttct taatctgatt gtccaaatca 240
ttaaataatg gatgattcag tgccattttg ccagaaattc gtttggtctg atcatagatt 300
aacattttcg agagcaaadc caagccattt tcatccaagt ttttgacatg ggatgctagg 360
cttcctgggt tccatttggg aaatgtattc ttatagtcc ttaaagattc cacttctggc 420
cacacttcat tattgggagt gcccacaaag ctgaaaatcc tgaagagttg atcaatttct 480
gaatccccat ggaaaagtgg tttcttagtt gctagtccag caaatatggg gcctatactc 540
caaatgtcaa ctggagttga gtaatgagct gacccagca atacttctgg agatctgtca 600
agtggttgca acaccattaa aaaatataaa agcagtgtt atattaaaaa aatgttgaag 660
aaaacatatn cctatatatt tnaaggaatt tcactaagca ctactaaatt tcatgttggt 720
gggangngtt a 731

```

<210> 268

<211> 745

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(745)

<223> n = A,T,C or G

```

<400> 268
gnnnnnntaa agnanacntc actatanngc gaattgggcc ctctagatgc atgctcgagc 60
ggccgccagt gtgatggata tctgcagaat tcgccctttg agcggccgcc cgggcaggta 120
cttccacac aggtttgttg taaaaattaa gtgagctaag gtgtataaaa tacttcagt 180
ctgaataaat gttggctttt attatatatt gttaaaaaac aacacaggct gggatgata 240
gctcacgect ataatcctag catttaggga ggccaaggca ggaggattgc ttgagtccag 300
gggtttgaga ccagcctggg caacatagtg agaccctatc tctacaaaat aaaataaatt 360
agttgggcat ggtggcacat gcctgtagtc ccagctactc aggaggctga ggtgggagga 420
ttgcttgagc ccaggaggta gaggttgagc tgagctgtga tcacaccact gcactccagc 480
gtcggtgacg gagtgagaac ctatctcaaa caaacaacaa aaaaaacca aaacaaacaa 540
aaaaatccag taaagacaga gattcctaaa attctacaat tctaaaaacc agtagggctc 600
actgaatata agaggagcaa gcaaaaaatt actccaatat tttgagtttg ggtaacctgg 660
aatatgggtc atttattgag taaatagtta ctgagtccca actatgtgcc acacactggg 720
ttaacacttg gcactgtctc ttatg 745

```

<210> 269

<211> 730

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(730)

<223> n = A,T,C or G

```

<400> 269
gntnnnnntt tnaanccggt cctnntgcat gctcgagcgg cccgccagtg tgatggatat 60
ctgcagaatt cgccctttga gcggccgccc ggccaggtac ttcccacaca ggtttgttgt 120
aaaaattaa tgagctaag tgatataaat acttcagtgc tgaataaatg ttggctttta 180
ttatatattg ttaaaaaaca acacaggctg ggtatgatag ctcacgccta taatcctagc 240
atttagggag gccaaggcag gaggattgct tgagtccagg ggtttgagac cagcctgggc 300
aacatagtga gaccctatct ctacaaaata aaataaatta gttgggcatg gtggcacatg 360
cctgtagtcc cagctactca ggaggctgag gtgggaggat tgcttgagcc caggaggtag 420
aggttgagc gagctgtgat cacaccactg cactccagcg tcggtgacgg agtgagaacc 480
tatctcaaac aaaaaacaa aaaaaacaa aaaaaccaa aaatccagt aaagacagag 540
attcctaaaa ttctacaatt ctaaaaaacca gtagggctca ctgaatataa gagaggcaag 600

```



```
caaaaaatta ctccaatatt ttgagtttgg gtaacctgga atatgggtcat tattgagtna      660
atagttactg agtcctacta tgtgccccaca ctgggtnaac acttgccactg tctcttatga      720
aatcttccan                                     730
```

```
<210> 270
<211> 713
<212> DNA
<213> Homo Sapien
```

```
<220>
<221> misc_feature
<222> (1)...(713)
<223> n = A,T,C or G
```

```
<400> 270
aattgggccc tctagatgca tgctcgagcg gccgccagtg tgatggatat ctgcagaatt      60
cgccctttcg agcggccgcc cgggcaggta caaaccaata gctcctattc tggaagggttt      120
tcttttttatt taaaaaaaaat tcaaacaagg ttaaaagtca agcaagaagg gaagagagaa      180
actgggttct gagaaaaaaaa tgtgccagta taaaataaac tcctaaatgc gtgcttgtca      240
tcctctagtt ttttttttaa gttgaatttc ttttccactg taacttaaga tttgagattg      300
aggtttgctg tccagaacat accctcagca gatacagtga ctaactggaa agtgcagttg      360
ttcaaggctc gtcattgctca atcacctaaa gctataattt gnttgatata ttaagcatgt      420
agacctagtg cagcatggga gccactcagg aagtttatgc aattaataaaa ctttcagcat      480
aatctactat gaagtatgca gaatttcacc ctcttctcca cacttaacat ttagttgtat      540
atgtgaactc tcctttctta attggggaat gtagcattat atagaatgtt gntaaaggta      600
attttaatcc tttttgacat taaccttttt tttttttggn aaaccaagtg atctgccttt      660
cagcaactgg cttattttgg gtctttgaaa ctgngatttt tatttcattn gnc              713
```

```
<210> 271
<211> 702
<212> DNA
<213> Homo Sapien
```

```
<220>
<221> misc_feature
<222> (1)...(702)
<223> n = A,T,C or G
```

```
<400> 271
gnctcgagcg gccgccagtg tgatggatat ctgcagaatt cgccctttcg agcggccgcc      60
cgggcaggta caaaccaata gctcctattc tggaagggttt tcttttttatt taaaaaaaaat      120
tcaaacaagg ttaaaagtca agcaagaagg actgggttct gagaaaaaaaaa      180
tgtgccagta taaaataaac tcctaaatgc gtgcttgtca tcctctagtt ttttttttaa      240
gttgaatttc ttttccactg taacttaaga tttgagattg aggtttgctg tccagaacat      300
accctcagca gatacagtga ctaactggaa agtgcagttg ttcaaggctc gtcattgctca      360
atcaccctaa agctataatt tgtttgatat attaagcatg tagacctagt gcagcatggg      420
agccactcag gaagtttatg caattaataa acttttcagca taatttacta tgaagtatgc      480
agaatttcac cctcttctcc acacttaaca tttagttgta tatgtgaact ctcttttctt      540
aattggggaa tgtncattat atagaatgtt ggtaaaggta attttaatcc tttttgacat      600
taaccttttt ttttttttgg taaaccaagt gatctgnctt ttaacaactg gcttatttgg      660
gtcctttttna actgggaatt ttatttcatt tgnnccctcg cc                      702
```

```
<210> 272
<211> 736
<212> DNA
<213> Homo Sapien
```

```
<220>
<221> misc_feature
<222> (1)...(736)
<223> n = A,T,C or G
```



&lt;400&gt; 272

gnnnttttgan	nnnnnnnnnn	ntatagggcg	aattggggccc	tctagatgca	tgctcgagcg	60
gccgccagtg	tgatggatat	ctgcagaatt	cgccctttcg	agcggccgcc	cgggcaggta	120
ctttttttta	ttcctcagtt	aaaacatgcc	tgttattctt	tttgtaatac	ttaagcaatt	180
ttatttttaa	gatatactac	ttagttcacc	cgctctccact	tggttttttt	ttttggnant	240
anngggttg	ttccnttaan	nccacnggtt	ttaaanccat	nntngtcnnn	ggnaaattan	300
nnttantnat	taaanntnnn	tnnctngca	aanntccagn	taaaatttta	gtgggggggg	360
gggggttant	acnggnaann	aattaantnc	nggnaatan	tttaannntt	ggnaangnac	420
nntngnnnta	annattattt	nnttnanntt	tttaataann	annaatttta	ntttgnaacn	480
ntggtnntta	ntaannggaa	annccaatta	attggttggt	tgnatttttc	ccagnaaccn	540
ntccntgggc	nggaacncc	ntangggnaa	nttcnagnnn	ntngngggcn	gtncnnagg	600
nnccaacnt	nggccancn	tggnggaann	nnnggcnnna	nnggttcccn	ggggnaaatg	660
gtattcngtt	cnaatccnnc	aantccaac	ccggagnctt	aangggtaan	nccngggggg	720
cntanngagn	gcctaa					736

&lt;210&gt; 273

&lt;211&gt; 715

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(715)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 273

gngnttttnac	ganngnnnnn	nnnnnctgct	cgagcgggcg	ccagtgtgat	ggatatctgc	60
agaattcgcc	ctttcgagcg	gccgcccggg	caggtacttt	tttttattcc	tcagttaaaa	120
catgcctgtt	attctttttg	taatacttaa	gcaattttat	tttaaagata	tactacttag	180
ttcatccgtc	tccacttggt	tttttttttt	gnmantanng	ggttggttcc	nttaanncna	240
cnggtnttaa	anccannnnn	gtcnnnggna	aattannntt	antcnntaaa	nntnnnnnnc	300
ntggnaannn	tccagntaaa	atttnagtgg	gggggggggg	tttaattancg	gnaannantt	360
aantnccgga	naatanttta	annnttggn	angnacnttn	gnnttaagna	ttatttnntt	420
cannttttta	atnantanna	attttaattt	gnaancntgg	nntttannaa	nnggaaannc	480
caattaattg	gttggttgna	ttttcccg	naaccnnncc	ntgggcngga	acancntaa	540
ggncaaatcn	accaantgnc	ggccgtacna	aggggatcca	acntngggcc	ancctggng	600
naataatggc	cnaantgggt	nccnggggna	aatggnatte	cgttcaaatt	ccnccanntc	660
cnacccgag	ccttaagnng	taaacctggg	ggcctaangg	ggggcctaac	tcaat	715

&lt;210&gt; 274

&lt;211&gt; 746

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(746)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 274

gnnntnnan	gnntacgact	cactataggg	cgaattgggc	cctctagatg	catgctcgag	60
cgcccgccag	tgtgatggat	atctgcagaa	ttcgccctta	gcgtggtcgc	ggccgaggta	120
ccagggtggc	tgacgcacat	cccctaaaca	ttctggatct	cttactcatc	gtgaaaggca	180
gacgctctaa	gtctaaagtc	tagggtagga	gtttccattc	tttggaatac	caaagatggt	240
tactcttctt	aatgaactg	agaagaaggt	atctacagaa	aacactgaat	ttaaacaaat	300
tatgaccttg	tttgttgaag	ccatcaagga	cccaagatat	atcaaagaac	aacatctctg	360
tattggccta	caggttcaga	gtgttttgag	gtctgtttta	gcactaatag	gatttttaggc	420
cagcatccag	tcagaagaga	tagttcacag	actcagagtt	ggaaacagat	taaaaaaaaa	480
aagatgtcaa	catagaaaat	gatgatagag	tttagttaaa	aaaattcaca	cataaaatta	540
cagttaaaaa	aattcacaca	taaaatagag	tgtttgcata	gcaagacatt	attgcccttc	600
agcctggcag	aaaaacataa	actcaggtgt	atattttata	ataaacattg	nattgaatgc	660
taagaatgat	acactgggtga	acatctnctg	aatgggtgcc	ttcttgtaaa	tcataccaat	720



tggttagaca attgaaattn ccagct

746

<210> 275  
 <211> 725  
 <212> DNA  
 <213> Homo Sapien  
 <220>  
 <221> misc\_feature  
 <222> (1)...(725)  
 <223> n = A,T,C or G

<400> 275  
 gnnnttaann ccttccctnt anatgcatgc tgcagcggcc gccagtgtga tggatatctg 60  
 cagaattcgc ccttagcgtg gtcgcggccg aggtaccagg tgggctgacg cacatcccct 120  
 aaacattctg gatctcttac tcatcgtgaa aggcagacgc tctaagtcta aagtctaggg 180  
 taggagtttc cattcttttg aaaaccaaag atggttactc ttcttaatga aactgagaag 240  
 aaggatatcta cagaaaacac tgaatttaaa caaattatga ccttgtttgt tgaagccatc 300  
 aaggacccaa gatatatcaa agaacaacat ctctgtattg gcctacaggt tcagagtgtt 360  
 ttgaggctg ttaagcact aataggattt taggccagca tccagtcaga agagatagtt 420  
 cacagactca gagttggaaa cagattaaaa aaaaaaagat gtcaacatag aaaatgatga 480  
 tagagttag ttaaaaaaat tcacacataa aattacagtt aaaaaaattc acacataaaa 540  
 tagagtgtt gcatagcaag acattattgc ccttcagcct ggcagaaaaa cataaactca 600  
 ggtgtatatt ttataataaa cattgnattg aatgctaaga atgatcactg ttgaacatct 660  
 cctgaatggt ttgccttctt gtaaatcata ccaatggta gacaattgaa attccagctc 720  
 tttct 725

<210> 276  
 <211> 744  
 <212> DNA  
 <213> Homo Sapien  
 <220>  
 <221> misc\_feature  
 <222> (1)...(744)  
 <223> n = A,T,C or G

<400> 276  
 nnnntgann gtatacgact cactataggg cgaattgggc cctctagatg catgctcgag 60  
 cggccgcccag tgtgatggat atctgcagaa ttcgccctta gcgtggctgc ggccgaggta 120  
 cttctgctgt ggtaactcaa gtaaccctcc gtttaaacca ggacagacct atgctgacaa 180  
 ccatttttat cactcttagt ggtattttct ttctttgaac atgaatgcat atttctgctc 240  
 tttaatggcc tttggtattt aagattacat tcagctagtc tccttattgc atgttggttt 300  
 attccagtc caccagcact cagaacaaca gcaagtgtgt gtaacagcgg gcacaggcgc 360  
 tccagacgga aggacctcac tgacgcagtt agctcaggta gagcttattt ctgtgttcaa 420  
 ttttcttgtc atgagaagca gtgaccctta agaatttgta tccctttgtt cacttctttg 480  
 ttttaggaga gaaacttcta aagcattact ctaaaagggt atagagacag agacgggcca 540  
 ttttcatcta ccccttgag agttaagttt tattacagta agttgtgagg tgagacatga 600  
 tggctgcagg cacatagtca agatctaccc ttctaaggaa ataaaacggg gaaaagtggt 660  
 tgaatgtcca atatagaaaa tttaatcacc actttcccaa aaaagaataa atggaggact 720  
 ncattggaat tatggaaatg aaan 744

<210> 277  
 <211> 724  
 <212> DNA  
 <213> Homo Sapien  
 <220>  
 <221> misc\_feature  
 <222> (1)...(724)  
 <223> n = A,T,C or G



<400> 277  
gnnnnnttncg antggggccct ctagatgcat gctcgagcgg cgcgcagtgt gatggatatc 60  
tgcagaattc gcccttagcg tggtcgcggc cgaggtactt ctgctgtggt aactcaagta 120  
accctccggt taaaccagga cagacctatg ctgacaacca tttttatcac tcttagtggt 180  
atthttctttc tttgaacatg aatgcatatt tctgctcttt aatggccttt ggtatttaag 240  
attacattca gctagtctcc ttattgcatg ttgttttatt ccagtccac cagcactcag 300  
aacaacagca agtgtgtgta acagcgggca caggcgctcc agacggaagg acctcactga 360  
cgcagtttagc tcaggttagag cttatttctg tgttcaattt tcttgtcatg agaagcagtg 420  
accctaaga atttgtatcc ctttgttcac ttctttgttt taggagagaa acttctaaag 480  
cattactcta aaaggtgata gagacagaga cgggccattt tcatctaccc cttgcagagt 540  
taagttttat tacagtaagt tgtgaggtga gacatgatgg ctgcaggcac atagtcaaga 600  
tctacccttc taaggaaata aaacggggaa aagtgggtga atgtccaata tagaaaattt 660  
aatcaccact ttccaaaaaa gaataaatgg aggactncat tgtaattatg gaaatgaaat 720  
ttgg 724

<210> 278  
<211> 748  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(748)  
<223> n = A,T,C or G

<400> 278  
gnnnntgaaa gtatacgact cactataggg cgaattgggc cctctagatg catgctcgag 60  
cgccccgcca gtgtgatgga tatctgcaga attcgccctt tcgagcggcc gcccgggcag 120  
gtacagctgc ccaagggcgt tcgtaacggg aatgccgaag cgtgtgaaaa agggagcgggt 180  
ggcggaagac ggggatgagc tcaggacaga gccagaggcc aagaagagta agacggccgc 240  
aaagaaaaat gacaaagagg cagcaggaga gggcccagcc ctgtatgagg accccccaga 300  
tcagaaaaacc tcaccagtg gcaaacctgc cacactcaag atctgctctt ggaatgtgga 360  
tgggcttcga gcttgatta agaagaaagg attagattgg gtaaagggaag aagccccaga 420  
tatactgtgc cttcaagaga ccaaatgttc agagaacaaa ctaccagctg aacttcagga 480  
gctgcctgga ctctctcatc aatactgggc agctccttcg gacaaggaag ggtactagca 540  
actaaccatg gttaaaagggt cttagtcaga attacaaaaa caaacattt agagtaatac 600  
ttatgaatac aagcataatt ggttcctcgc cttctacaaa taaccatctt gaaaatgata 660  
aaagcagggt tcaactgtgg tcttctctca ttgagaagggt gcagatacac atgggtgatc 720  
tactgattta ccttcttgaa agtnctcg 748

<210> 279  
<211> 727  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(727)  
<223> n = A,T,C or G

<400> 279  
gnnnnttcga ntggggccctc tngngcatgc tcgagcggca cgccagtgtg atggatatct 60  
gcagaattcg ccctttcgag cggccgcccc ggcaggtaca gctgcccagg ggcgttcgta 120  
acgggaatgc cgaagcgtgt gaaaaaggga gcggtggcgg aagacgggga tgagctcagg 180  
acagagccag aggccaaaga gagtaagacg gccgcaaaaga aaaatgacaa agaggcagca 240  
ggagagggcc cagccctgta tgaggacccc ccagatcaga aaacctcacc cagtggcaaa 300  
cctgccacac tcaagatctg ctcttggaat gtggatgggc ttcgagcctg gattaagaag 360  
aaaggattag attgggtaaa ggaagaagcc ccagatatac tgtgccttca agagaccaa 420  
tggtcagaga acaaactacc agctgaactc caggagctgc ctggactctc tcatcaatac 480  
tggtcagctc cttcggacaa ggaagggtac tagcaactaa ccatgggttaa aaggtcctag 540  
tcagaattac aaaaacaaaa catttagagt aatacttatg aatcaagcat aattggttcc 600  
tcgccttcta caaataccat ctttgaaaat gatnaaaagc aggtttcaac tgtggttctt 660



ctctcanttg aaaaggtcag atcccatggg tgatctactg atttaccttc tgaaaagtac 720  
ttggccg 727

<210> 280  
<211> 751  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(751)  
<223> n = A,T,C or G

<400> 280  
gnnnntgann gtatacgact cactataggg cgaattgggc cctctagatg catgctcgag 60  
cgcccgccag tgtgatggat atctgcagaa ttccgacctta gcgtgggtcgc ggccgaggta 120  
ctcatgtatt tttttttttt tccagatctc tttccccaag ttgctattgt aagagtattc 180  
tgctgcgtgt ggatgcagtt atacacatta aagcagatct ggagtctgaa gtagctataa 240  
agcagctata aaacagaaat acatgcatag ctgcagaaac catgataggt agaggacttt 300  
tcttttgggt ttgttttgtt ttgttttgtt ttgttttttg ttttacagag aagagatttt 360  
tattacaaag aaaaaaattc cagtgaattg tgcagaaatg ctggttttta caccatccta 420  
aagaaaaact ttacaagggt gttttggagt agaaaaaag ttataaagtt ggaatcttaa 480  
attgtaaaat taaccattga gtgtcaaagt tctaaaagca gaactcattt tgtgcaatga 540  
acataaggaa agactactgn atagggtttt tttttctcct tttaaatgaa gaaaagcttt 600  
gcttaagggt tgcatacttt tattggagta aatctgaatg atcctactcc tttggagtaa 660  
aactagtgtc taccagtttc caattggatt taacttctgg ggtggaattt ggaaaaaaaa 720  
agaannnnng aaaaagaaaa cctaanttaa n 751

<210> 281  
<211> 727  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(727)  
<223> n = A,T,C or G

<400> 281  
gnnnttcgan tgggacctct agatgcatgc tcgagcggcc gccagtgtga tggatatctg 60  
cagaattcgc ccttagcgtg gtccgcccgc aggtactcat gtattttttt tttttccag 120  
atctctttcc ccaagttgct attgtaagag tattctgctg cgtgtggatg cagttatata 180  
cattaaagca gatctggagt ctgaagtagc tataaagcag ctataaaaca gaaatacatg 240  
catagctgca gaaacatga taggtagagg acttttcttt tggttttgtt ttgttttgtt 300  
ttgttttgtt tttggtttta cagagaagag atttttatta caaagaaaaa aattccagtg 360  
aattgtgcag aaatgctggt ttttacacca tcctaagaa aaactttaca aggggtgttt 420  
ggagtagaaa aaagggtata agtttggat cttaaattgt aaaattaacc attgagtgtc 480  
aaagttctaa aagcagaact cattttgtgc aatgaacata aggaaagact actgnatagg 540  
ttttttttt ctctttttta atgaagaaaa gctttgctta agggttgcat acttttattg 600  
gagtaaatct gaatgatcct actcctttgg agtaaaacta gngcttccag tttccaattg 660  
gatttaactt ctggnatggaa tttgnaaaaa aaagaanaaa aggaaaanga aaccctaant 720  
naaatag 727

<210> 282  
<211> 749  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(749)  
<223> n = A,T,C or G



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<400> 282
tnnaaagnaa gctctttact cactatnngg gcgaattggg ccctctagat gcatgctcga      60
gcgccgcgcca gtgtgatgga tatctgcaga attctncctt cgagcggccg cccgggagcagg      120
tactttttttt tttttttttt tttttttttt ttttttnaaac tactaggatt tactgtagga      180
taaaagctnt acatggccct gcntacaaac tttctgcata cttctgcaaa tttttatgcn      240
ttactnaatc cattaaaaat caccttggaa naaactgcaa acncantana aactaaatga      300
natagtcaca gagaacanca aaaatagtaa ttnaagttcc catacaacat caagtgtgtn      360
cagtctatct tnggttcttc gggttctctt taaaattgaa ttgagtttgn atatgcatat      420
gtatgtagga gtggaggatg gaattaatta tcccaaacat cctacantca ctctctaat      480
atttctttng ttaacatgca aatctgttct cttcattacg gngatactgc atttacatta      540
caacacantt agagatcatt aactttctcc tttataatca gccattttca caggcctttg      600
atatacaagc acctataata tattcttact catctcacac tttcatttac caaagtgtca      660
aaacaacatt tttacatcat tgatatttgg ttnantttct gcaanctggc tggtanaaaa      720
tgattacttc tnttaaatta ctttttanc

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<210> 283
<211> 730
<212> DNA
<213> Homo Sapien

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<220>
<221> misc_feature
<222> (1)...(730)
<223> n = A,T,C or G

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<400> 283
gtctntgaan cnggncctct ngatgcatgc tcgagcggcc gccagtgtga tggatatctg      60
cagaattcgc ccttcgagcg gccgcccggg caggactttt tttttttttt tttttttttt      120
tttttttttc aaactactag gatttactgt aggataaaaag ctntacatgg ccctgcatac      180
aaactttntg catacttntg caaattttta tgcattactc aatccattaa aaatcacctt      240
ggaanaaaact gcaaacncaa tagaaactaa atganatagt cacagagaac aacaaaaata      300
gtaatttaag ttcccataca acatcaagtg tgttcagctc atttttggtt cttcggggtc      360
tctttaaaat tgaattgagt ttgtatatgc atatgtatgt aggantggag gatggaatta      420
attatcccaa acatcctaca ctcactctc taataatttct tttgttaaca tgcaaactctg      480
ttctcttcat tacggngata ctgcattttac attacaacac aattagagat cattaacttt      540
ctcctttata atcagccatt ttcacaggcc ttgatatac aagcacctat aatataattct      600
tactcatctt acactttcat ttaccaaagt gtcaaaaaaca acatttttac atcattggat      660
atttggttta gtttctgcaa nctggctttt anaaaaatga ttacttctct taaattacct      720
tttaccctca

```

```

<210> 284
<211> 739
<212> DNA
<213> Homo Sapien

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<220>
<221> misc_feature
<222> (1)...(739)
<223> n = A,T,C or G

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<400> 284
gnnntnaaag tatacgactc actatagggc gaattgggccc ctctagatgc atgctcgagc      60
ggccgccagt gtgatggata tctgcagaat tcgcccttag cgtggtcgcg gccgaggtag      120
aacataaagc aacagagagg tcttcatggt tgggaagtgg ctgggcagga tgccaaaccc      180
caaagtactt attgagcaat ttctaaacca aacagagagg taggaaaaga ggatgggggt      240
caggggtgga ggctgtggaa aggggagagc gagggctgaa gagaatggca gccatacagg      300
tgttttggtt ttatttccac atctgaggac tgagagtctg atttgctgcc tgtccatttc      360
cgccactcat tgactgtcca tagttcatca tgccattggc tccatagaag ttcatcccag      420
ccatctgctg ggtcatctga gtaaggttcc attgcagctg ctgagctggc tggaccccat      480
acacagtctg gggcatagct gccatgcctg ccatgtagcc agcctgctgg gtgggtcatca      540
ttccattcgg cacacccatc attgatgcct gcatgccacc catatagcct gcaggcatgg      600

```



ccatgggggc	aaccatccca	gaactnctgc	tgagcaacca	tgcctactgg	tggaagcatc	660
atgcttccca	ttatgctgtt	angangtgta	ccccngggaa	actggggtag	ctgtgggata	720
tccatctgan	ccggaccat					739

<210> 285  
<211> 721  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(721)  
<223> n = A,T,C or G

<400> 285						
gnnnttcgan	tgggccctct	ngatgcatgc	tcgagcggcc	gccagtgtga	tggatatctg	60
cagaattcgc	ccttagcgtg	gtcgcggcac	gaggtacaac	ataaagcaac	agagaggtct	120
tcatgtttgg	gaagtggctg	ggcaggatgc	caaaccctaa	atgacttatt	gagcaatttc	180
taaaccaaac	agagaggtag	gaaaagagga	tgggggtcag	gggtggaggc	tgtggaaagg	240
ggagagcgag	ggctgaagag	aatggcagcc	atacaggtgt	tttgttttta	tttccacatc	300
tgaggactga	gagctctgatt	tgtgcctgt	ccatttccgc	cactcattga	ctgtccatag	360
ttcatcatgc	cattggctcc	atagaagttc	atcccagcca	tctgctgggt	catctgagta	420
aggttccatt	gcagctgctg	agctggctgg	accccatata	cagtctgggg	catagctgcc	480
atgcctgcc	tgtagccagc	ctgctgggtg	gtcatcattc	cattcggcac	acccatcatt	540
gatgcctgca	tgccacccat	atagcctgca	ngcatggcca	tgggggcaac	catcccagaa	600
ctcctggctg	agcaaccatg	cctactgggtg	gangcatcat	gcttccatt	atgctgttag	660
gangtgatcc	ccggggaanc	tggggtagct	gtgggatatc	catttaaccg	gagccatgaa	720
c						721

<210> 286  
<211> 757  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(757)  
<223> n = A,T,C or G

<400> 286						
gnnnnttaaa	gnntacgact	cactataggg	cgaattgggc	cctctagatg	catgctcgag	60
cggcccgcca	gtgtgatgga	tatctgcaga	attcgccctt	tcgagcggcc	gcccgggcag	120
gacgcggggg	ttgcacccatg	gcgtccatgg	ggaccctcgc	cttcgatgaa	tatgggcgcc	180
ctttcctcat	catcaaggat	caggaccgca	agtcccgtct	tatgggactt	gaggccctca	240
agtctcatat	aatggcagca	aaggctgtag	caaatacaat	gagaacatca	cttggaccaa	300
atgggcttga	taagatgatg	gtggataagg	atggggatgt	gactgtaact	aatgatgggg	360
ccaccatctt	aagcatgatg	gatgttgatc	atcagattgc	caagctgatg	gtggaactgt	420
ccaagtctca	ggatgatgaa	attggagatg	gaaccacagg	agtggttgtc	ctggctgggtg	480
ccttgttaga	agaagcggag	caattgctag	accgaggcat	tcacccaatc	agaatagccc	540
gatggctatg	agcaggctgc	tcgcgttgct	attgaacacc	tggacaagat	cagcgatagc	600
gtccttgttg	acataaagga	caccgaaccc	ctgattcaga	cagcaaaaaa	ccacgctggg	660
cttncaaaaag	tggtcaacag	ttgtcaccga	cagatggctt	gaaaattgct	gtgaaatgcc	720
cgtccttact	gtaaccagat	atngaaccgg	aaaagac			757

<210> 287  
<211> 726  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(726)



<223> n = A,T,C or G

<400> 287

gnnnnnactga	tttctggctc	gaagttgnat	ntgcggnccgc	cagtgtgatg	gatatctgca	60
gaattcgccc	tttcgagcgg	ccgcccgggc	aggacgcggg	ggttgacca	tggcgctccat	120
ggggaccctc	gccttcgatg	aatatgggcg	ccctttcctc	atcatcaagg	atcaggaccg	180
caagtcctgt	cttatgggac	ttgaggccct	caagtctcat	ataatggcag	caaaggctgt	240
agcaaataca	atgagaacat	cacttggacc	aaatgggctt	gataagatga	tgggtggataa	300
ggatggggat	gtgactgtaa	ctaattgatg	ggccaccatc	ttaagcatga	tggatgttga	360
tcacagatt	gccaagctga	tgggtggaact	gtccaagtct	caggatgatg	aaattggaga	420
tggaaaccaca	ggagtgggtg	tcctggctgg	tgccttggtt	gaagaagcgg	agcaattgct	480
agaccgaggc	attcacccaa	tcagaatagc	ccgatggcta	tgagcaggct	gctcgcgttg	540
ctattgaaca	cctggacaag	atcagcgata	gcgtccttgn	tgacataaag	gacaccgaac	600
ccctgattca	gacagcaaaa	accacgctgg	gctccaaaag	tgggtcaacag	ttgtcaccga	660
cagatggctg	aaaatgctgt	gaatgccgtc	ctnctgtanc	agatatngaa	ccggaaaaga	720
ccttga						726

<210> 288

<211> 743

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(743)

<223> n = A,T,C or G

<400> 288

gnnntganng	tatacgactc	actatagggc	gaattggggc	ctctagatgc	atgctcgagc	60
ggccgccagt	gtgatggata	tctgcagaat	tcgcccttcg	gccgcccggg	cagggtacctt	120
ttacctaaaa	ttctagccac	tttaatttgg	agagtttcca	gagcaaaggg	cacagatccc	180
aggcataaca	acgttttgcg	tatacagcaa	ccaatatctt	gtcaacccaa	gaaagtctct	240
ccattgatac	ctagtagaaa	tagcccagtt	tttaaagtcc	tcaaaactgt	aacaaattac	300
ttgtttttta	aatttaactt	aaattaatac	aatcagatgt	ttgtgttatt	tggtgtattg	360
agtatgttaa	agcacatata	tcccagagac	atagagtttc	cgtttcacaa	agtcattgat	420
tcattgtgtg	taattgacaat	cctatcctga	cccgttatgt	gacttgatgc	tctaaacctt	480
aggcttttct	gaattttatc	tgtaatttta	accctgatgt	ctcagcagca	gcttctcttt	540
gtaaatagac	ttgcctcttc	tgtgtctgac	ctctgctcct	cataatcaga	ttaactcaga	600
taaagctgct	tcagggaaga	ggtcaaaaacc	gttgccaaaa	atagtagttg	ccctacttca	660
gtctattttc	aacagagtag	cccaggagat	ctgtcacacc	aaagtccaat	cagccctact	720
ggtagcactc	tgntcacaag	ccn				743

<210> 289

<211> 726

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(726)

<223> n = A,T,C or G

<400> 289

gnnnnnactc	gcagtcctgc	tagatgcatg	ctcgagcggc	cgccagtgtg	atggatatct	60
gcagaattcg	ccctcgggcc	gcccgggcag	gtacctttta	cctaaaaattc	tagccacttt	120
aatttgagga	gtttccagag	caaagggcac	agatcccagg	cataacaacg	ctttgcgtat	180
acagcaacca	atatcttgct	aaccacaaga	agttcctcca	ttgataccta	gtagaaatag	240
cccagttttt	aaagtcctca	aaactgtaac	aaattacttg	tttttaaaat	ttaacttaaa	300
ttaatacaat	cagatttttg	tgttatttgg	gtatttagagt	atgttaaagc	acatatatcc	360
cagagacata	gagtttccgt	ttcaaaaagt	catgcattca	tgtgtgctaa	tgacaatcct	420
atcctgaccc	gctatgtgac	ttgtatctct	aaacctatgg	ctttcctgaa	ttttatctgt	480
taatttaacc	ctgattttct	agcagcagct	tctctttgta	aatagacttg	cctcttctgt	540



gtctgacctc	tgctcctcat	aatcagatta	actcagataa	agctgcttca	gggaagaggt	600
caaaaccgtt	gcaaaaaata	gtagttgccc	tacttcagtc	tatttttcaac	agagtagcca	660
ggagatctgt	tcacaccaa	gtccaatcag	ccctactggt	agcactctgc	tcacaagcct	720
ncagtg						726

<210> 290  
<211> 740  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(740)  
<223> n = A,T,C or G

<400> 290						
gnnnnngaaag	tatacgactc	actatagggc	gaattggggc	ctctagatgc	atgctcgagc	60
ggccgccagt	gtgatggata	tctgcagaat	tcgcccttag	cgtggtcgcg	gccgaggtac	120
ccagatgtct	ttctcgggtca	ccttcccag	accattttaag	acctccctag	ctgctcgttc	180
tccagcctca	actgcccctt	ccatgtagcc	gctccacttt	gtggcagtc	ctgtgcccgc	240
aaagaaaatc	ctgcccacgg	gttgacgaat	cacccttcca	tattgagtca	tgatcccagg	300
aggggaagtag	gccgtgtagc	agccccaga	gtacctgccc	gggcggccgc	tcgaaagggc	360
gaattccagc	acactggcgg	ccgttactag	tggatccgag	ctcggtagca	agcttggcgt	420
aatcatggtc	atagctgttt	cctgtgtgaa	attgttatcc	gctcacaatt	ccacacaaca	480
tacgagcccg	aagcataaag	tgtaaagcct	ggggtgccta	atgagtgagc	taactcacat	540
taattgcgtt	gcgctcactg	cccgttttcc	agtcgggaaa	cctgtcgtgc	cagctgcatt	600
aatgaatcgg	ccaacgcgcc	ggggagaggc	ggnttgcgta	ttgggcgctc	ttncgctttc	660
tngctcactg	actcgtcgcg	ctcggtcggt	cggctgcggc	nagcggtatc	agctcattaa	720
angcggtaat	acggtatccn					740

<210> 291  
<211> 724  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(724)  
<223> n = A,T,C or G

<400> 291						
gnnnnnnncna	ntggggccctc	tngngcatgc	tcgagcggcc	gccagtgtga	tggatatctg	60
cagaattcgc	ccttagcgtg	gtcgcggccg	aggtaccag	atgtctttct	cggtcacctt	120
cccagagacca	tttaagacct	ccctagctgc	tcgtttctcca	gcctcaactg	ccccttccat	180
gtagccgctc	cactttgtgg	cagtctctgt	gcccgcgaaag	aaaatcctgc	ccacgggttg	240
acgaatcacc	cttccatatt	gagtcatgat	cccaggaggg	aagtaggccc	tgtagcagcc	300
cccagagtac	ctgcccgggc	ggccgctcga	aaggcggaat	tccagcacac	tggcggccgt	360
tactagtggg	tccgagctcg	gtaccaagct	tggcgtaatc	atggtcatag	ctgtttcctg	420
tgtgaaattg	ttatccgctc	acaattccac	acaacatacg	agccggaagc	ataaagtgtg	480
aagcctgggg	tgccaatga	gtgagctaac	tcacattaat	tgcgttgcgc	tcactgcccg	540
ctttccagtc	gggaaacctg	tcgtgccagc	tgcattaatg	aatcggccaa	cgcgcgggga	600
gaggcggttt	gcgtattggg	cgctcttccg	cttcctcgct	cactgactcg	ctgcgcttng	660
nccgtccgg	tgcggcagcg	gtataactna	ctcaaaggcg	gtaataccgg	tatncacaga	720
atca						724

<210> 292  
<211> 740  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature



&lt;222&gt; (1) ... (740)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 292

gnnnnngnang	tatacgactc	actatagggc	gaattggggc	ctctagatgc	atgctcgagc	60
ggcccgccag	tgtgatggat	atctgcagaa	ttcgccctta	gcgtgggtcg	ggccgaggta	120
cagaaagaat	caaagaacat	atatatatat	taagtttcat	tccaacctac	aaagagcctg	180
cacttaaaag	tcttaaaggt	ttcctgaatc	atggaatctc	aacttacctg	ccaattaatc	240
cagttctctc	tttttaaatg	cagactccaa	ccttaaacag	aaggcatatt	ctagctgact	300
tctaagtgtg	tccaaagcat	acctcagaga	gccaaagtgg	ctgtgttcaa	tacctattct	360
ttctatagaa	tctcaaaagt	ggcagtatga	tgaaaagaaa	agctactttt	tctcctaaaa	420
atacccccct	tcatcatcag	tgtgttggtc	tttttgcac	acaaagaata	gacattctaa	480
atgttccctt	ccacacagaa	agacataaga	gagaatgtga	gtatgagtga	gagtggtgag	540
gtaagttgag	ggatagtttg	ctatccaaaa	tgaatcattt	tgaagatgac	tttgtaaaga	600
agtaatatag	ttaaaaatct	caagacatga	gattgangan	ggcagggaaa	taaaggacct	660
angaatggaa	aagagttaca	gcccattgtg	atacatcac	aaacctacca	ggttatttct	720
ngaatctctc	acacagggtg					740

&lt;210&gt; 293

&lt;211&gt; 723

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (723)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 293

gnnnnnnnn	annggcctc	tagatgcatg	ctcgagcggc	cgccagtgtg	atggatatct	60
gcagaattcg	cccttagcgt	ggtcgcggcc	gaggtacaga	agaatcaaa	gaacatatat	120
atatattaag	tttcattcca	acctacaaag	agcctgcact	taaaagtctt	aaagggtttcc	180
tgaatcatgg	aatctcaact	tacctgccaa	ttaatccagt	tctctctttt	taaatgcaga	240
ctccaacctt	aaacagaagg	catattctag	ctgacttcta	agtgtgtcca	aagcatacct	300
cagagagcca	agtgggtctg	gttcaatacc	tattctttct	atagaatctc	aaaagtggca	360
gtatgatgaa	aagaaaagct	actttttctc	ctaaaaatac	cccccttcat	catcagtgtg	420
ttgtcatttt	tgcatacaca	agaatagaca	ttctaaatgt	tcccttccac	acagaaagac	480
ataagagaga	atgtgagtat	gagtgagagt	gtgtaggtaa	gttgagggat	agtttgctat	540
ccaaaatgaa	tcattttgaa	gatgactttg	taaagaagta	atatagttaa	aaatctcaag	600
agcatgagat	tganganggc	agggaaataa	angcctagga	atggaaaaga	gttaacagcc	660
catgtgaata	catagcaca	acctaccagg	ttatttctgg	gaatctnacc	agtttgctgg	720
aaa						723

&lt;210&gt; 294

&lt;211&gt; 736

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (736)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 294

gnnnnnnnna	gaccgactca	ctatagggcg	aattggggccc	tctagatgca	tgctcgagcg	60
gccgccagtg	tgatggatat	ctgcagaatt	cgccctttcg	agcgcccgcc	cgggcaggta	120
cctgggatta	caggcaccga	ccaccacgcc	tggctaattt	ttttttgtat	ctttagtagg	180
gttttgccat	gttggccagg	ctggtcttta	actcctacct	cgtgatccac	ccgcctcggc	240
cccccaaagt	gctaggacca	caggcgtgag	ccaccacgcc	cagccccctg	tctctttttt	300
taaaacacaa	tttaaaagca	gaaagaaaaa	atctgtgctg	tttagactca	gattcttaat	360
tagctagtat	ttcttaattc	aatcaataaa	ttattaagac	cttttctactg	ctcccttttt	420
aaagtcttct	ttggagtgat	ttaagtgcct	cttattacca	agctctcaaa	gagaagataa	480



aattaaaatc	tgatgggtaa	ccattttaaat	aagacaactg	gggtaaccca	tttctccagg	540
acccctctct	gcaacagaga	gctattctct	ttctttggcc	tagtaaacct	ctgctcttaa	600
cctttaaaaa	aaaaaaaaaa	gtacctcggc	cgcgaccacg	ctaanggcga	attccagcac	660
actggcgccc	gttactagt	gatccgaact	cggccaact	tggcgtaatc	atggcatagt	720
ggttctctg	tgaaan					736

<210> 295  
<211> 725  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(725)  
<223> n = A,T,C or G

gnnnnnnnnn	annnggccct	ctagatgcat	gctcgagcgg	ccgccagtgt	gatggatatc	60
tgcagaattc	gccctttcga	gcggccgccc	gggcaggtag	ctgggattac	aggcaccac	120
caccacgcct	ggctaatttt	tttttgatc	tttagtaggg	ttttgccatg	ttggccaggc	180
tggtctttta	ctcctacctc	gtgatccacc	cgccctcgcc	ccccaaagt	ctaggaccac	240
aggcgtgagc	caccacgccc	agccccctgt	ctcttttttt	aaaacacaat	ttaaaagcag	300
aaagaaaaaa	tctgtgctgt	ttagactcag	attcttaatt	agctagtatt	tcttaattca	360
atcaataaat	tattaagacc	ttttcactgc	tcccttttta	aagtcttctt	tggagtgttt	420
taagtgtctc	ttattaccaa	gctctcaaag	agaagataaa	attaaaaatc	gatgggtaac	480
cattttaata	agacaactgg	ggtaacccat	ttctccagga	cccctctctg	caacagagag	540
ctattctctt	tctttggcct	agtaaaccctc	tgtctttaac	ctttaaaaaa	aaaaaaaaag	600
tacctcgccc	gcgaccacgc	taagggcgaa	ttccagcaca	ctggcgcccg	ttactagtgg	660
atccgaactc	ggtagcaagc	ttgcgtaatc	atggcatagc	tggttctctg	gtgaaatggt	720
atccg						725

<210> 296  
<211> 742  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(742)  
<223> n = A,T,C or G

gnnnnnnnnn	nnacaaanct	gggtagggcg	aattggggccc	tctagatgca	tgctcgagcg	60
gccgccagt	tgatggatat	ctgcagaatt	cgccctttcg	agcggccgccc	cgggcaggta	120
ccatgctgac	ttcttggtat	cttttaaggc	ctaattttcc	cttccttgag	attactgtag	180
tgtgttccag	ctaattttcta	tttgaaaacg	agttggaaca	gctgaaaact	aggtattatt	240
gaaggcaaag	cagcctcacg	tcagtttttt	atcagctcat	ttgggaagtt	tttttttttt	300
ttttttttta	attaattaga	aagtaggctg	ggcacgggtg	ctcatgccta	taatcccagc	360
acttggggag	gccgaggatc	tcctctctgg	tggatcactt	gagggcagga	gttaagagac	420
catcctggcc	aacatgatga	aaccctgtct	ctactaaaaa	tacaaaaagt	agctgggcgt	480
ggtggcatac	tcttacaatc	ccagctactt	gggaggctga	ggcaggagaa	tcacttgaac	540
ctaggaagca	gaggttgtag	tgggccaaga	tcacaccact	atactctagc	ctgggcgaca	600
gaagtgggga	aaaaagtagg	acccctgtcc	tatattcang	gttttctcac	atatatgaac	660
ccatctaaat	tctacgttgg	taaaaggaac	ctaagggttaa	ttagnctata	cttattttaag	720
aaccattntg	ggngggagat	gg				742

<210> 297  
<211> 728  
<212> DNA  
<213> Homo Sapien

<220>



<221> misc\_feature  
<222> (1)...(728)  
<223> n = A,T,C or G

<400> 297  
tnnnntttga annncnacnt ctagnngcatg ctcgagcggc cgccagtgtg atggatatct 60  
gcagaattcg cccttttcgag cggccgccccg ggcaggtacc atgctgactt cttgggtatct 120  
tttaaggcct aatttttcct tccttgagat tactgtagtg tgttccagct aattttctatt 180  
tggaacacgag ttggaacagc tgaaaactag gtattattga aggcaaagca gcctcacgctc 240  
agttttttat cagctcattt gggaagtttt tttttttttt tttttttaat taattagaaa 300  
gtaggctggg caggtggct catgcctata atcccagcac ttggggaggc cgaggatctc 360  
ctctctgggt gatcacttga gggcaggagt taagagacca tcctggccaa catgatgaaa 420  
ccctgtctct actaaaaata caaaaagtag ctgggcgtgg tggcatactc ttacaatccc 480  
agctacttgg gaggtgagg caggagaatc acttgaacct aggaagcaga ggttgcatgt 540  
ggccaagatc acaccactat actctagcct gggcgacaga agtggggaaa aaagtaggac 600  
ccctgtccta tattcangtt tttctcacat atatgaaccc atctaaattc tacgttggt 660  
aaggtaacct aagttaatta gncatactt atttaaganc aatatggggt gaaaatggat 720  
tttttttn 728

<210> 298  
<211> 745  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(745)  
<223> n = A,T,C or G

<400> 298  
gnnnnnnttna nnnnatatga ctactatat agggcggaatt gggccctcta gatgcatgct 60  
cgagcggccg ccagtgtgat ggatatctgc agaattcgcc cttagcgtgg tcgcgccga 120  
ggtaccacag ttttgctcca cactccttga ccgcaggggc tcggacacaa acccctgtca 180  
ccaggagagt cagtcagcac tacttgggag ggctaaagg aaatttggaa ataaaattcc 240  
aaagtttggg gtaaaaaaat tcaagtgttg attttatatt ctttcccttt ctgacacagc 300  
ctaaagcgta gggggaacat gtgtttatct gtgggagata aacaagatgg agtcccaaag 360  
actttaacaa aatatttttt taaaaatcca ctagaataga aaatacatta tttagatata 420  
ctttatgctg agagttagta tatatgcttg tcctatttaa acttgtgaga aaaagtggta 480  
tcccttgata catttagaaa tatgggggct atcttgtttc attgtggggg tggggcagaa 540  
ggagaataaaa tgcaggatga ccctgttgaa ggaatcttag catggccaac aggggacgtt 600  
tccagtcgat taccaggaaa tgcaagcctt ggggtttcta ctggtggtgg ggctgtcatg 660  
aactttaaaa tccaaagcct agacaaggaa aagtgttaga ccaattgaaa agcaatccac 720  
cctttttttt tttttttttt ggctt 745

<210> 299  
<211> 733  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(733)  
<223> n = A,T,C or G

<400> 299  
gnnnnnnnnn nnnnnncct ctatagctgt ctcgaacggc cgccagtgtg atggatatct 60  
gcagaattcg cccttagcgt ggtcgcgccg gaggtacca cgttttgctc cacactcctt 120  
gaccgcagg gctcggacac aaaccctgt caccaggaga gtcagtcagc actacttggg 180  
agggtctaaag ggaaatttgg aaataaaatt ccaaagtttg gagtaaaaaa attcaagtgt 240  
tgattttata ttctttccct ttctgacaca gcctaaagcg tagggggaac atgtgtttat 300  
ctgtgggaga taaacaagat ggagtcccaa agactttaac aaaatatttt tttaaaaatc 360  
cactagaata gaaaatacat tatttagata tactttatgc tgagagtggg tatatatgct 420



tgtcctat	ttt aaactt	gtga gaaaaa	gtgg tatccct	tga tacatt	ttaga aatatg	ggggg	480
ctatctt	gtt tcattg	tggg ggtggg	gcag aaggaga	ataaatg	ccagga tgaccct	gtt	540
gaaggaat	ctt tancat	ggcc aacaggg	gac gtttcc	agtc gattacc	agg aaatg	caagc	600
cttgggg	gtt ctactg	gtg tggggc	tgtc atgaac	ntttt aaaatc	caaa gcctag	acca	660
aggaaa	gtg ttagan	cctan tggaaa	agcc attccag	ccc tttttt	tttn nnnntt	tttg	720
gcttttc	acc aca						733

&lt;210&gt; 300

&lt;211&gt; 741

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(741)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 300

gnnnnntg	ann gtatac	gaac tcacta	tagg gcgaat	tggg ccctc	tagat gcatg	ctcga	60
gcggccgc	cca gtgtg	atgga tatct	gcaga attcg	ccctt tcgag	cgggcc gcccg	ggcag	120
gtacgtag	tc taggcc	atat gtgtt	ggaga ttgag	actag taggg	ctagg cccac	cgtg	180
cttcgcagg	c ggcaaga	ct agtat	ggcaa taggc	caat attgg	ctaag agggag	tggg	240
tgttgagg	gt tatgag	agta gctata	atga acagc	atag tattat	tcct tctagg	caca	300
gtagggag	ga tatgag	gtgt gagcg	atata ctagt	tattcc taga	agttag atggt	aaatg	360
ctagtata	aat atttat	gtaa atgag	gggcc ccgcg	tactc aagt	gggtct ctgc	cctca	420
gtgggtgg	cct tggct	ctcaa gtttc	agcaa ttctg	ggaag ccaag	gacac ctcc	atctcc	480
tcctccct	gta tctgc	aactc atcta	agagc agctt	tctca ctgga	atgtc ttgt	gttta	540
ggaacaaga	aa tccctg	tttc cggtt	tgggt gccca	agtg acctac	tgga tcca	accag	600
gattggag	at actttg	caga acaca	acatc atctg	gcaca tgacc	agcca tggg	tgttc	660
ctttcaca	aat ttcag	cttnc ttcact	gatt gcagc	ataat cgnng	tcaac acctt	caaga	720
ccaaggct	gta tgtggg	ccgc t					741

&lt;210&gt; 301

&lt;211&gt; 724

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(724)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 301

gnnnnntn	cn antggg	ccct ctngn	gcatn gctcg	agcgg cagcc	agtgatg	at	60	
ctgcaga	att cgccct	tttcg agcgg	ccgcc cgggc	caggtat	cgtagt	ctag gccat	atgtg	120
ttggagat	tg agacta	gtag tagg	ctagccc accg	ctgctt cgcag	gcggc aaaga	ctagt	180	
atggcaat	ag gcaca	atatt ggcta	agagg gagtg	gggtgt tgagg	gttat gagag	tagct	240	
ataatga	aca gcgata	gtagt tattc	ccttct aggc	acagta gggag	gatata gaggt	gtgag	300	
cgatata	cta gtattc	ctag aagtga	gatg gtaaat	gcta gtata	aatatt tatg	taaatg	360	
aggggccc	cg cgtact	caag tgggt	ctctct cctct	cagtgt gtgg	ccttgg tctt	caagtt	420	
tcagcaat	tc tggga	agcca aggac	acctc catct	cctcc tccct	gatct gcaac	tcctc	480	
taagagca	gc tttct	cactg gaatg	tcttg tgttt	aagga acaag	aatcc ctgtt	tccgg	540	
tttgggtg	gcc caagt	gcacc tactg	gatcc aaccc	caggat tggag	ataact ttgc	agaaca	600	
caacatcat	c tggcac	atga ccagc	catgg tgttt	cactt tcaca	atttc agctt	ncttc	660	
actgattg	ca cataat	cgtag gtcaac	acct tcaag	accan ggctg	atgtn ggccg	ntaca	720	
ngga							724	

&lt;210&gt; 302

&lt;211&gt; 745

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien



<220>  
<221> misc\_feature  
<222> (1)...(745)  
<223> n = A,T,C or G

<400> 302  
gnnnntgaaa gtntanacga ctactatag ggcgaattgg gccctctaga tgcattgctcg 60  
agcgcccgcc agtgtgatgg atatctgcag aattcgccct ttcgagcggc cgcccgggca 120  
ggtactattc cggatataca agatcactgg gagatgttga tgatggagac acagtgcag 180  
atttcatggc ccaagagcga gaaagaggca ttactattca atcagctgct gttacatttg 240  
attggaaaagg ttatagagtc aatctaattg atacaccagg tcatgtggac tttaccttgg 300  
agggtgagcg gtgcctaaga gtgttgatg gtgcagtggc tgtatttgat gcctctgctg 360  
gtgtagaggc ccagactctc acagtatgga ggcaagctga taaacacaat atacctcgaa 420  
tctgtttttt aaacaagatg gacaaaactg gagcaagctt taagtatgca gttgaaaagca 480  
tcagagagaa gttaaaggca aagcctttgc ttttacagtt accaattggg gaagccaaaa 540  
ctttcaaagg agtgggtggat gtagtaatga aagaaaaact tctttggaat tgcaattcaa 600  
atgatggaaa agactttgag agaaagcccc tcttggaat gaatgatcct gaattgctga 660  
aggaaacaac tgaagcaagg aatgccttaa ttgaacaagt tgcagaattt ggatgatgaa 720  
ttgctgactt ggggtttanaa naaat 745

<210> 303  
<211> 724  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(724)  
<223> n = A,T,C or G

<400> 303  
gnnnttcgan tgggcccttc tagatgcatg ctcgagcggc cgccagtgtg atggatatct 60  
gcagaattcg cccttttcgag cggccgcccg ggcaggctact attccggata tacaagatca 120  
ctgggagatg ttgatgatgg agacacagtg acagatttca tggccaaga gcgagaaaga 180  
ggcattacta ttcaatcagc tgctgttaca tttgattgga aagggtatag agtcaatcta 240  
attgatacac cagggtcatgt ggactttacc ttggagggtg agcgggtgcct aagagtgttg 300  
gatgggtgcag tggctgtatt tgatgcctct gctgggtgtag aggcccagac tctcacagta 360  
tggaggcaag ctgataaaca caatatacct cgaatctgtt ttttaaacaa gatggacaaa 420  
actggagcaa gctttaagta tgcagttgaa agcatcagag agaagttaaa ggcaaagcct 480  
ttgcttttac agttaccaat tgggtgaagcc aaaactttca aaggagtggg ggatgtagta 540  
atgaaagaaa aacttctttg gaattgcaat tcaaatgatg gaaaagactt tgagagaaaag 600  
cccctcttgg aaatgaatga tcctgaattg ctgaaggaaa caactgaagc aagggaatgcc 660  
ttaattgaca agttgcagat ttggatgatg aatttgctga cttggtttta gaagaattan 720  
tgag 724

<210> 304  
<211> 741  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(741)  
<223> n = A,T,C or G

<400> 304  
gnnnnnngaa agtntacgac tcactatagg gcgaattggg ccctctagat gcatgctcga 60  
gcggccgcca gtgtgatgga tatctgcaga attcgccctt agcgtggctg cggccgaggt 120  
actttataaa tggaaatttc ttctacttgt atccatttcc cggggcttat ggacccattc 180  
atactctcca tatttagaat caaaggttcc tttctgaaga gaccttaatt ttaaggtaaa 240  
acgtgggtcca agttcctgaa ttcccacttt cttttcactc ctgaatatgt atctgtgaaa 300  
tctgaagaat atgtaatccc gttgattgtg gaatgtggca acctgccttc cgataaattg 360



aggattatga	ggaaagagag	atgcaaacat	acgtccaatt	gaatgaccca	gccgtgttgt	420
aaaattattc	agaattatit	caggtatgtg	ttctgtgggg	tccttgccct	ttctcttaat	480
ttctttacga	agacgaacac	tgctcatttt	aaaatgagca	gttgggccaat	ttggcaagt	540
actcaaaata	agtccatttg	gggtttttacg	atcttcatta	ataacaatca	ggtctgtgaa	600
atctcttgcg	atgcactgtg	gaataatttt	tttcagaacc	agcctcttct	gtaataaaca	660
tgtgagtttg	gtataactgt	gganagctgt	cacagagtcg	taccagtata	ccaaccatac	720
caactntgtt	gtagagcaaa	a				741

&lt;210&gt; 305

&lt;211&gt; 719

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(719)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 305

gnnnntncaa	ntgggcccctc	tngatgcatg	ctcgagcggc	cgccagtgtg	atggatatct	60
gcagaattcg	cccttagcgt	ggtcgcgcc	gaggtacttt	ataaatggaa	ttttcttcta	120
cttgatatcca	tttcccgggg	cttatggacc	cattcatact	ctccatattt	agaatcaaa	180
gttcctttct	gaagagacct	taattttaag	gtaaaacgtg	gtccaagtcc	ctgaattccc	240
actttctttt	cactcctgaa	tatgtatctg	tgaaatctga	agaatatgta	atcccgttga	300
ttgtggaatg	tggcaacctg	ccttccgata	aattgaggat	tatgaggaaa	gagagatgca	360
aacatacgtc	caattgaatg	acccagccgt	gttgtaaaat	tattcagaat	tatttcagggt	420
atgtgttctg	tggggtcctt	gcctcttctc	ttaatttctt	tacgaagacg	aacactgctc	480
attttaaaat	gagcagttgg	gccatttggc	aagtgaactc	aaataagtc	atttgggggt	540
ttacgatctt	cattaataac	aatcaggtct	gtgaaatctc	ttgcgatgca	ctgtggaata	600
atTTTTTcag	agccagtcct	cttctgtaat	aaacatgtga	agtttggtat	actgtggana	660
gctgtcacag	agtcgacagt	ataccaacca	taccaactct	gttgnagaac	anaacccat	719

&lt;210&gt; 306

&lt;211&gt; 746

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(746)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 306

gnnnntgaa	agtatacgac	tcactatagg	gcgaattggg	ccctctagat	gcatgctcga	60
gcggccgcca	gtgtgatgga	tatctgcaga	attcgccctt	tcgagcggcc	gcccgggcag	120
gtactccagc	ccaggcgaca	gagtgaagct	cagtctcaaa	aaaaaaaaaa	atttggggcaa	180
gttatagtc	atctcatagt	gttggttagga	ctaatttctt	catgtgctta	gaaaaatgcc	240
tggcagatag	gaaatggtca	atattattat	tattgataag	atgaccattt	tggagtttag	300
aaaaccattt	tcaatgccta	tgaaataaca	actccataag	ccattccctt	aatccagta	360
gactgaattc	tcacaagtcc	tcactactca	tcatttctac	atcctgctga	tttacaata	420
cttcttcata	ccatggttta	tgtctttgct	taatataca	gaggatggat	tccatggtag	480
agccaaactc	aatgatacta	cgagtctcat	tttggttaag	ataagcaaag	ccagcagcat	540
gcatggccac	caatgaacct	tttgaatcaa	acacagggga	gcccgggaag	cccaaagaaa	600
aattcagtg	cataggtaat	cacatcangg	ttgtgaacta	ttttctggaa	acttctttga	660
gtatacatat	ggacatactc	tggactttct	gcttttttag	actgaacacg	ttcctgacat	720
ttctttgctc	gctgaccctg	anggat				746

&lt;210&gt; 307

&lt;211&gt; 725

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien



<220>  
<221> misc\_feature  
<222> (1)...(725)  
<223> n = A,T,C or G

<400> 307  
gnnnnntncn antggccctc tagatgcatg ctcgagcggc cgccagtgtg atggatatct 60  
gcagaattcg ccctttcgag cggccgcccg ggcaggtagt ccagcccagg cgacagagtg 120  
agactcagtc tcaaaaaaaaa aaaaaatttg ggcaagttat agtccatctc atagtgttgt 180  
taggactaat ttcttcatgt gcttagaaaa atgcctggca gataggaaat ggtcaatatt 240  
attattattg ataagatgac cattttggag tttagaaaac cattttcaat gcctatgaaa 300  
taacaactcc ataagccatt cccttaaate cagtagactg aattctcaca agtctctatc 360  
actcatcatt tctacatcct gctgatttac aaatacttct tcataccatg gtttatgtct 420  
ttgcttaata tcaaggagga tggattccat ggtagagcca aactcaatga tactacgagt 480  
ctcatttttg taagtataag caaagccagc agcatgcatg gccaccaatg aaccttttga 540  
atcaaacaca ggggagccgg aagcccaaaa gaaaaattca gtgtcatagg taatcacatc 600  
anggttgtag actattttct ggaaacttct ttgagtatac atatggacat actctggact 660  
ttctgctttt ttagactgac acgttcttga catttctttg ctcgctgacc ctgagggatc 720  
acang 725

<210> 308  
<211> 744  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(744)  
<223> n = A,T,C or G

<400> 308  
gnnnntgaaa gtaatacgac tcactatagg gcgaattggg ccctctagat gcatgctcga 60  
gcggccgcca gtgtgatgga tatctgcaga attcgccctt tcgagcggcc gcccgggcag 120  
gtacgcgggg tgacaagtag caacatggct tgggtcccct gtgcagcatc agcttatgct 180  
gccacaagtc agtttgaccc ctaggtaacc aggagctagt atccttagat ctttctatcg 240  
ctaacttaat tctcttcggt atttatctga ccctctaact ccatgtctaa cttgcattaa 300  
aaaaaaaaaa attctttaca gtcaacccaa gcttaacatg gactcagggt ccccgagcagc 360  
cttaattttg tttgttaaca tctgttcctt ctttttcagc tctcctagag tatttctgag 420  
tgttgtgttc atctaactct agtattcttt taattacaaa ttgacctcac agcttgagggt 480  
ttcctgtgtc ttattctgtg gactacctgt gctcctttgc ttcccctccc ctgcataat 540  
aactatatta agaaattttt ttggccttg agttggctgg aaaaaaata taaaatttaa 600  
aaaaaaaaan nnnnnnnnaa aaaaaaaaag tacctnggcc gggaccacgc taanggcgaa 660  
ttccagcaca ctggcgccg ttactaagt gatccgaact cgggtaccaac ttggcgtaat 720  
catggcatag ctggttctct ngga 744

<210> 309  
<211> 746  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(746)  
<223> n = A,T,C or G

<400> 309  
gnnnntncga ntgggccctc tagatgcatg ctcgagcggc cgccagtgtg atggatatct 60  
gcagaattcg ccctttcgag cggccgcccg ggcaggtagt cgggggtgaca agtagcaaca 120  
tggttggtt cccctgtgca gcatcagctt atgctgccac aagtcagttt gcaccctagg 180  
taccaggag ctagtatcct tagatcttct tatcgctaac ttaattctct tcgttattta 240  
tctgaccctc taactccatg tctaacttgc attaaaaaaa aaaaaattct ttacagtcaa 300  
cccaagctta acatggactc aggttcccca gcagccttaa tttgttttgt taacatctgt 360



tccttctttt	tcagctctcc	tagagtattt	ctgagtgttg	tggtcatcta	atcttagtat	420
tcttttaatt	acaaattgac	ctcacagctt	gaggtttctt	gtgtcttatt	ctgtggacta	480
cctgtgctcc	tttgcttccc	ctcccctcgc	ataataacta	tattaagaaa	ttttttttgg	540
ccttgagttg	gctggaaaaa	aaatataaaa	tttaaaaaaa	aaannnnnnn	nnnnaaaaaa	600
aaaagtcctt	ggccgggacc	acnctaangg	cgaaattcca	gcacaactgg	gcggnccggt	660
actaagggga	atcccnaact	tnggnaccn	aaacttgggc	gtaaaacaat	gggncaataa	720
gctggnnncc	ctggnggtga	aaaatt				746

<210> 310  
 <211> 751  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (751)  
 <223> n = A,T,C or G

gnnnntgana	gtaatacgac	tcactatagg	gcgaattggg	ccctctagat	gcatgctcga	60
gcggcccgcca	gtgtgatgga	tatctgcaga	attcgccctt	tcgagcggcc	gcccgggcag	120
gtacttaatg	cctttctcct	cctggacatc	agagagaaca	cctgggtatt	ctggcagaag	180
tttatatttc	tccaaatcaa	tttctggaaa	aaacgtgtca	ctttcaaagt	cttgcattgat	240
ccttgtcaca	aatagtttaa	gatggcctgg	gtgattcatg	gcttccttat	aaacagaact	300
gccaccaact	atccagacca	tgtctacttt	atttgcta	tctgggtgtt	cagtaagttt	360
taaggcatca	tctagacttc	tggaaagaaa	atgagctcct	tgtggagggt	ccttgagttc	420
tctgctgaga	actaaattaa	ttctaccctt	taaaggctga	ttcttctcag	gaatggagaa	480
ccaggctctt	ttacccataa	tcaccagatt	ctgnntacct	tctactgaag	aagttgtggt	540
cattctctgg	aaatatctga	attcattcct	gagcgggtgg	caaggcangt	ncccgttcct	600
gccgatgccc	atgttctggg	acacagcgac	gatgcagttt	agcgaaccaa	ccatgacagc	660
aaccgggang	accttcgagc	cccgttcgnt	acaagccccc	gcgtaccttn	gggccngaa	720
cacgcttaag	ggcgaattnc	aacacactgg	c			751

<210> 311  
 <211> 724  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (724)  
 <223> n = A,T,C or G

gnnttnan	tgggcccctt	agatgcatgc	tcgagcggcc	gccagtgtga	tggatatctg	60
cagaattcgc	ccttttcgagc	ggccgcccgg	gcaggtaact	aatgcctttc	tcctcctgga	120
catcagagag	aacacctggg	tattctggca	gaagtttata	tttctccaaa	tcaatttctg	180
gaaaaaacgt	gtcactttca	aagtcttgca	tgatccttgt	cacaaatagt	ttaagatggc	240
ctgggtgatt	catggcttcc	ttataaacag	aactgccacc	aactatccag	accatgtcta	300
ctttatttgc	taattctggg	tggtcagtaa	gttttaaggc	atcatctaga	cttctggaaa	360
gaaaatgagc	tccttgtgga	ggttccttga	gttctctgct	gagaactaaa	ttaattctac	420
cctttaaagg	tcgattcttc	tcaggaatgg	agaaccagg	cttcttacc	ataatcacca	480
gattctgttt	accttctact	gaagagggtg	tggtcattct	ctggaaatat	ctgaattcat	540
tcctgagcgg	tggccaaggc	angtccccgt	tcttgccgat	gccccatgtt	tgggacacag	600
cgacgatgca	gtttancgaa	ccacccatga	cagcagcggg	aggaccttcg	agccccctcg	660
ttacaagccc	ccgcgtacct	tnggccgcga	acaccttang	gcgaaattca	acacactggc	720
ggcc						724

<210> 312  
 <211> 738  
 <212> DNA  
 <213> Homo Sapien



<220>  
 <221> misc\_feature  
 <222> (1)...(738)  
 <223> n = A,T,C or G

<400> 312  
 nnnntttgaa gnctacnact cactataggg cgaattgggc cctctagatg catgctcgag 60  
 cggccgccag tgtgatggat atctgcagaa ttccgccctt gagcggccgc ccgggcaggt 120  
 acgcgggggg cagacatggc gacattgaca gtgggtccagc cgctcaccct ggacagagat 180  
 gttgcaagag caattgaatt actggaaaaa ctacaggaat ctggagaagt acgttcacta 240  
 attatctaca aggacaaaat cagttgtatt taaaaaactc tacttcagtg tttgttttag 300  
 tttttttttt actgaaactt gtttttgtga atactctgtg cttagaatta aatatcactt 360  
 tcttatgaac aacataactt cttcagattg tgtatatgaa aacattagca agtcttggtt 420  
 tttctatgaa gcaaacacaa ttggtgacaa aggttgtcaa tcatttcttc aaaattataa 480  
 tgcagttcta atgggtcagca tattttgata ttaaatttaa agatcacctc tctgcatttg 540  
 tttttaaatt atgctaatac accacacatt atgttgggtat gttttgggtc gtccctcggcc 600  
 gcgaccacgc ttanggcgaa ttccagcaca ctggcgggcc gttactagtg gatccgagct 660  
 cggccaagc tggcgtaatc atgggtcatag ctgggttcctg tgtgaaatgg tatccgttac 720  
 aattcccaca catacgan 738

<210> 313  
 <211> 720  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(720)  
 <223> n = A,T,C or G

<400> 313  
 gnnttncaan tgggccctct agatgcatgc tcgagcggcc gccagtgtga tggatatctg 60  
 cagaattcgc cttttgagcg gccgccggg caggtacgcg gggggcagac atggcgacat 120  
 tgacagtggc ccagccgctc accctgggaca gagatgttgc aagagcaatt gaattactgg 180  
 aaaaactaca ggaatctgga gaagtacgtt cactaattat ctacaaggac aaaatcagtt 240  
 gtattttacaa aactctactt cagtgtttgt tttagttttt tttttactga aacttggttt 300  
 tgtgaatact ctgtgcttag aattaaatat cactttctta tgaacaacat aacttcttca 360  
 gattgtgtat atgaaaacat tagcaagtct tgttttttct atgaagcaaa cacaattgggt 420  
 gacaaaaggtt gtcaatcatt tcttcaaaat tataatgcag ttctaattgg cagcataatt 480  
 tgatattaaa tttaaagatc acctctctgc atttggtttt aaattatgct aatacaccac 540  
 acattatgtt ggtatgtttt gntctgtacc tcggccgcga ccacgctaan ggcgaattca 600  
 ncacactggc ngncgttact agtggatccg agctcggacc aaacttggcg taatcatngn 660  
 catagctggc tctgtgtga aaatgggtatc cgttacaatt tcacacacat acgagccgga 720

<210> 314  
 <211> 740  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(740)  
 <223> n = A,T,C or G

<400> 314  
 gnnnttnaa gnctacgact cactataggg cgaattgggc cctctagatg catgctcgag 60  
 cggccgccag tgtgatggat atctgcagaa ttccgccctt gcgtggctgc ggccgaggt 120  
 cttttttttt tttttttttt ttagtgcttt ctactttatt aaacatcaaa gcccaaatag 180  
 atgttccctg tggaggagga cttaggaca ctaggggagg agaaaggag acctgggaag 240  
 agaatcacac cacagagacc aatcttcaca aaaagggtcc aatattgatt tctaggagg 300  
 agcagggcat ggtcagctca aatttgggtga taacgtcagg atgaaggacc ccaagcttcc 360



cgacgctttg	acccctggca	aagatctctg	cacatcgccc	ggggaagaaa	gcaggccctt	420
ctgatgcttt	gatcacatat	cccccttgt	cttcaccagg	aggcacatcg	agcaactgca	480
taattctgtc	cagcagccca	tgaatgatct	caaaccagg	attcttgntg	taataaacag	540
cactgagatg	tctgtagttt	tttgacaccta	catctgnatt	agaatctttt	attacaatgt	600
cagagatttc	aaacagtttc	agtgggaagg	gcattcttacg	attgctgcta	tggcttcagg	660
angccaggaa	gaagggtagt	gcgtgccacc	tgaattcac	tggtttagga	tacttatgtg	720
gactggcttt	gttgcaaan					740

&lt;210&gt; 315

&lt;211&gt; 722

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(722)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 315

gnnnnnnnnnn	nnnnnnntnn	atgctgctcg	agcgcccgcc	agtgtgatgg	atatctgcag	60
aattcgccct	tagcgtgggc	gcggccgagg	tacttttttt	tttttttttt	tttttagtgct	120
ttctacttta	ttaaaccatca	aagcccaaat	agatgttccc	tgtggaggag	gacttaagga	180
cactagggga	ggagaaagg	acacctggga	agagaatcac	accacagaga	ccaatcttca	240
caaaaagggt	ccaatattga	tttctaggga	ggagcagggc	atggtcagct	caaatttggt	300
gataacgtca	ggatgaagga	ccccaaagctt	cccgacgctt	tgacctctgg	caaagatctc	360
tgcacatcgc	ccggggaaga	aagcaggccc	ttctgatgct	ttgatcacat	atccccctt	420
gtcttcacca	ggaggcacat	cgagcaactg	cataattctg	tccagcagcc	catgaatgat	480
ctcaaaccca	ggattcttgt	tgtataaaac	agcactgaga	tgtctgtagt	tttttgcacc	540
tacatctgna	ttagaatctt	ttattacaat	gtcagagatt	tcaaacagtt	tcagtggaaa	600
ggggcatctt	acgatttgct	gctatggnc	tcangaggnc	angaaaaagg	gtantgcntg	660
cccctgaaat	tcantctggt	taggattacc	tatgtggact	ggctttgntg	caaaaaaatn	720
cn						722

&lt;210&gt; 316

&lt;211&gt; 753

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(753)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 316

gnnnnnttna	nagtnnnnac	gactcactat	aggggcgaac	nctctncatg	catgctcnan	60
cggnccnncan	ngtcatggat	atntgctgan	ttcgccctta	ccntngcntn	ggccgaggcg	120
cagntcccac	gtntngctcc	ncactncnnn	accgcagggg	cncngacncn	gaccngngnn	180
ncnnngngag	tnccncagca	ctacttggga	nggctanagg	gaagnttgga	aataaaattc	240
caaannttg	agtaaaagca	atncangcgn	ngattatata	tgntnnccct	ttctgacacn	300
ncctagagcg	tagggggaac	atngntntat	ctgtgggana	tnaacaagat	ggagtcccaa	360
agactttaac	aaagntat	cttaannatc	cnctacaatn	nanaatncat	tattcatatn	420
tactntatgc	tggnagttag	tatntatgct	ngtcctat	aaacttgnga	gaanaagtgg	480
tntcccttga	tacattnaga	aatatggggg	ctatcttgnt	ncattgtggg	ggtggggcan	540
aagganaatn	aatgcangat	gacctgttg	aangaatctt	aacatggcca	acanggggac	600
ngtttacagt	cgattaccag	gaaangcaag	ccttgggggt	tctactgcng	gtgggggctg	660
tcatgaactt	naaaatccan	agnctatacc	aggaaaaagt	gttangaccc	aattgaaang	720
ctntccaccc	tttcttttnn	tttgttceng	cnc			753

&lt;210&gt; 317

&lt;211&gt; 893

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien



<220>  
 <221> misc\_feature  
 <222> (1)...(893)  
 <223> n = A,T,C or G

<400> 317

gtgnnntntn	cnaaatggnc	cntttnaatg	cctncctcga	gcgggcccgc	agtgtgatgg	60
atntntaatt	cgnccttagc	gtggtcgcgg	ccgnngtacn	aangaaataa	aantnacagt	120
ntcaaagaac	caaantaagt	cggacacaaa	cccctgtcac	cannagagtc	ccatanacat	180
aannnggntg	ntgtcaagna	ggattnaaat	taactttaac	aacnttntat	ataatgctac	240
attccccaat	taataaagga	nagttcacat	atacanctaa	ntgntaattg	tggaanaaag	300
ggtgaaantn	tgcatanтта	atannaaana	atgctgaang	cttttncata	nnattnnctt	360
aaaaatncac	ttncnatgca	gcantangtn	tacatgctta	atntatcntg	cnagtgattn	420
ntatgcttgt	cctacatgac	ntaccttgaa	caactggnac	tncccagatt	catactgaaa	480
tatggggncg	ntaantatnt	tgggancggg	annacntgaa	tcctcaaagg	atannnnntn	540
tccagntgga	tgaaccnat	nattnaaang	gatatnntna	accatnggan	cgaatgnncg	600
nnntctttt	tcaatnntnc	nggaagntnc	cnnttnnata	ncccgngggc	cncattgnng	660
ggnttatntn	ncaatcaann	ccnngagntg	tntnntcntt	cntcnaccgc	ataacctttt	720
gccataggga	accttntttt	aacctctttg	gnttatnggg	aaanaannnn	ntttttaaat	780
tcnccaaaat	ngggaaaaan	aaccttnttc	actctaaaaa	nttanccnta	gacctanttn	840
tngngncata	tttgntaaac	ncatggnc	ctcnagnggg	gnnctgggnc	nnc	893

<210> 318  
 <211> 744  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(744)  
 <223> n = A,T,C or G

<400> 318

gnnnngattg	tatacgactc	actatagggc	gaattggggc	ctctagatgc	atgctcgagc	60
ggccgccagt	gtgatggata	tctgcagaat	tcgccctttc	gagcggccgc	ccgggcaggt	120
acctcattag	taattgtttt	gttgtttcat	ttttttctaa	tgtctcccct	ctaccagctc	180
acctgagata	acagaatgaa	aatggaagga	cagccagatt	tctcctttgc	tctctgctca	240
ttctctctga	agtctaggtt	acctttttg	gggacccatt	ataggcaata	aacacagttc	300
ccaaagcatt	tggacagttt	cttggtgtgt	tttagaatgg	tttccctttt	tcttagcctt	360
ttcctgcaaa	aggctcactc	agtcctttgc	ttgctcagtg	gactgggctc	cccagggcct	420
aggctgcctt	cttttccatg	tcccacccat	gagccctcca	ctggacagct	cagtaagcct	480
ggcccttcat	tctgcgctgt	gttcttcctc	tgtgaaaatc	caatacctct	tacctcctct	540
gcatgcaaa	attctcaagg	attgtcagac	ttcaaacgta	acagcagaac	caccagaagg	600
tcctataaat	gcagtagtga	ccttctcaag	ctgtcanggc	tttaaataag	atttgggatt	660
taatgctatg	tattttttaa	ggaaagaaat	aagagttgct	agtttttaaa	atgcatgtct	720
tttaccgaat	canaatctgg	cccc				744

<210> 319  
 <211> 720  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(720)  
 <223> n = A,T,C or G

<400> 319

gngtttaaac	cttcttanng	ctgctcgagc	ggccgccagt	gtgatggata	tctgcagaat	60
tcgccctttc	gagcggccgc	ccgggcaggt	acctcattag	taattgtttt	gttgtttcat	120
ttttttctaa	tgtctcccct	ctaccagctc	acctgagata	acagaatgaa	aatggaagga	180



cagccagatt	tctcctttgc	tctctgctca	ttctctctga	agtctaggtt	acccattttg	240
gggacccatt	ataggcaata	aacacagttc	ccaaagcatt	tggacagttt	cttggtgtgt	300
tttagaatgg	ttttcctttt	tcttagcctt	ttcctgcaaa	aggctcactc	agtcccttgc	360
ttgctcagtg	gactgggctc	cccagggcct	aggetgcctt	cttttccatg	tcccacccat	420
gagccctcca	ctggacagct	cagtaagcct	ggcccttcat	tctgcgctgt	gttcttcttc	480
tgtgaaaatc	caatacctct	tacctcctct	gcatgcaaag	attctcaagg	attgtcagac	540
ttcaaacgta	caagcagaac	caccagaagg	tcctataaat	gcagttagtg	ccttctcaag	600
ctgtcanggc	tttaaatagg	atttgggatt	taatgctatg	tattttttaa	ggaaagaaat	660
agagttgcta	gttttaaaaa	tgcatgtctt	ttaaccaatt	cagaatctgg	ccccnaactt	720

&lt;210&gt; 320

&lt;211&gt; 694

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)... (694)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 320

atgctcgagc	ggnccggcant	gtgatggatn	tctgcagaat	tcgccctttc	gagcggccgc	60
ccgggacagg	actattccgg	atatacaaga	tcactgggag	atgttgatga	tggagacaca	120
gtgacagatt	tcatggccca	agagcgagaa	agaggcntta	ctattcaatc	agctgctggt	180
acatttgatt	ggaaagggtta	tagagtcaat	ctaattgata	caccagggtca	tgtggacttt	240
accttggagg	ttgagcgggtg	cctaagagtg	ttggatgggtg	cantggctgt	atttgatgcc	300
tctgctgggtg	tagaggccca	gactntcaca	gtatggaggc	aagctgataa	acacaatata	360
cctcgaatct	gtttttttaa	caagatggac	aaaactggag	caagctttaa	gtatgcagtt	420
gaaagcatca	gagagaagtt	aaaggcaaag	cctttgcttt	tacagttacc	aattggtgaa	480
gccaaaactt	tcaaaggagt	ggtggatgta	gtaatgaang	aaaaacttct	ttgggaattg	540
caattcaana	tgatggaaaa	gactttgaga	gaaagccctt	cttggaaatg	aatgatcctg	600
aattgctgaa	ggaaacaact	gaacaaggaa	tgctttaat	gaacaaagtt	gcagatttgg	660
atgatgaatt	tgctgacttg	gttttaagaa	gaat			694

&lt;210&gt; 321

&lt;211&gt; 781

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)... (781)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 321

gngttnacna	ntgggccctc	tngatgctgc	tcgagcggcc	gncagtgtga	tggatntctg	60
cagaatncgc	cctncgggcg	gccgnccggg	caggtactat	nccggatata	caagatcact	120
gggagatggt	gatgatggag	acncagngac	agatttcatg	gcccagagac	gagaaagagg	180
cnttactatn	caatcagctg	ctgttacatt	cgattggaaa	ggttatngag	tcaatctaata	240
tgatncacca	ngtnatgtgg	actttacctt	ggagggttgag	cggtgcctaa	nagtgttgga	300
tgggtgcann	gctgtatttg	atgcctctgc	tgggtgtagag	gcccagactc	tcacagtatg	360
gatgcaagct	gataaacaca	atatacctng	aatctgtgtt	ttaaacaaga	tggacaaaac	420
tggagcaagc	tttaaagtnt	gcagttgaaa	gcatcagaga	gangttnaag	gcanagcctt	480
tgcttttaca	gtttcccaat	tgggtgaaac	ccaaaacttt	tcaaagggag	ttggttggat	540
tgtaagtaat	gaaaggaaaa	acttctttgg	gaaantggca	atttcaanat	gattggaaaa	600
ngacttttgg	gagaaaagcc	ccttcttggg	aaaatngaaa	tgatncctga	aatttgcngt	660
aaanngaaaa	cnaacntgna	atccaangga	attncccttt	aanttggaac	aaaggnttgc	720
naanttttng	attgaatnga	atttgncn	cntttngggt	ttangaaaga	aattaaagng	780
g						781

&lt;210&gt; 322

&lt;211&gt; 744



<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(744)  
<223> n = A,T,C or G

<400> 322  
gnnntganag tatcgactca ctatagggcg aattggggccc tctagatgca tgctcgagcg 60  
gcccggccagt gtgatggata tctgcagaat tcgccctttc gagcggccgc ccgggcaggt 120  
acgcggggac tgggtttttc tccttttgta gccttttctt ttagtctcct cttcccggtg 180  
gttggtaaaa agaggtgaat tgacagccta tgggtgaagac actgtgcttt tctcaagaag 240  
gacatccaaa cagcaagtct acttctttct ctttaacgat gtgctcatta tcaccaagaa 300  
gaagagtga gaaagttaca acgtcaatga ttattcctta agagatcagc tattggtgga 360  
atcttgtgac aatgaagagc ttaattcttc tccaggggaag aacagctcca caatgctcta 420  
ttcaagacag agctctgccca gtcacctctt tactctgaca gtccttagta accacgcgaa 480  
tgagaaagt gagatgctac taggagctga gacgcagagc gagcgagccc gctggataac 540  
tgccctggga cacagcagcg ggaagccgcc tgcagaccga acctnactga cccaggtgga 600  
aatcgttagg tcatctactg ctaagcagcc agatgaactc ttcctgcagt ggctgacgtc 660  
gtcctcatct atcaacgtgt cagcgatggc tgggtatgaag gggaaacgact tcgagatgga 720  
gaaagaagnt gggttcctat ggaa 744

<210> 323  
<211> 723  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(723)  
<223> n = A,T,C or G

<400> 323  
gtgtttcaan cggctcctcta gatgctgctc gagcggccgc cagtgtgatg gatatctgca 60  
gaattcgccc ttctcgagcg ccgcccgggc aggtacgcgg ggaactgggtt tttctccttt 120  
tgtagccttt tccttttagtc tcctcttccc ggtgggttggg aaaaagaggt gaattgacag 180  
cctatgttga agacactgtg cttttctcaa gaaggacatc caaacagcaa gtctacttct 240  
ttctctttaa cgatgtgctc attatcacca agaagaagag tgaagaaagt tacaacgtca 300  
atgattattc ctttaagagat cagctattgg tggaaatcttg tgacaatgaa gagcttaatt 360  
cttctccagg gaagaacagc tccacaatgc tctattcaag acagagctct gccagtcacc 420  
tctttactct gacagtcctt agtaaccacg cgaatgagaa agtggagatg ctactaggag 480  
ctgagacgca gagcgagcga gcccgcgtgga taactgccct gggacacagc agcgggaagc 540  
cgctgcagac cgaacctcac tgacccaggt ggaaatcggt aggtcattta ctgctaagca 600  
gccagatgaa ctcttctgc angtggctga cgtcgtcctc atctatcaac gtgtcancga 660  
tggtggtatg aaggggaacg actacnagat ggagaaagaa gctgggtttcc tatggaatgt 720  
gcc 723

<210> 324  
<211> 746  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(746)  
<223> n = A,T,C or G

<400> 324  
gggnttgaag ncncgactca ctatagggcg aattggggccc tctagatgca tgctcgagcg 60  
gcccggccagt gtgatggata tctgcagaat tcgcccttag cgtgggtcgcg gccgaggtac 120  
cttgagatct gagcaactgt gttaatgaag taatagcaat ggtccacagt gaaagatgtg 180



ttgggggtttg	caaaaacaagc	attccggtcac	ctctttaata	atgtcacaga	cttttttaaa	240
agagaggcta	tcaagttgta	atataatctg	tcatgtttta	tttaggaagg	aaggtaaatt	300
tgtgcttgca	cggggatcat	tttgtattat	ttntgcta	atccagttga	agctaaaaag	360
caactattttg	aatcctgtga	attaattttat	aagaatgtta	aacagctntg	gaaatacatg	420
catcttatga	atcatagcct	tatttagcaa	gatcaatgtt	aaagtgttga	tatatggcaa	480
gtatttaaca	cattcacagt	gntagtttga	tttcaactgt	gaattgtcct	acagtttttt	540
caaacctagt	gtntctatgg	acacctgtct	tgaattgtac	ccctcagtca	ccaccaaagc	600
atttncaccc	ctttcaaccc	ccaatcagac	cantgctttc	agtggatttg	gaggacttnt	660
atcacagctt	catnangtgg	tcttggcaca	ggcagnctga	ctngcttngg	aactggtgct	720
tttggactcc	cttcaanngn	aatant				746

&lt;210&gt; 325

&lt;211&gt; 742

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(742)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 325

gtgtttcann	cggccctcta	gatgcatgct	cgagcggccc	gccagtgtga	tggatatctg	60
cagaattcgc	ccttagcggtg	gtcgcgggccg	aggtaccttg	agatctgagc	aactgtgtta	120
atgaagtaat	agcaatgggtc	cacagtga	gatgtgttgg	ggtttgcaaa	acatgcattc	180
cgtcacctct	ttaataatgt	cacagacttt	tttaanagag	aggctatcaa	gttgnatata	240
aatctgtcat	gtattattta	agaaggaagg	taaatntgtg	cttgacggg	gatcattttg	300
nattattnct	gctnatcccc	agctgaagct	nanaancnac	tnnttgnatc	ctgtgantta	360
atncatanna	atgttanaca	gctntggaaa	tccatgcctc	ttatgaatca	tngccttatt	420
tancangatc	aatgtttaaag	ntgttgatat	nnggcaagtn	tnaacaacat	tnacantgct	480
agtntgattt	caactgngaa	ttgncttacc	gtnttttnaa	acctananga	atntatngac	540
acctnctctn	aatngnnncc	ctcaancacc	acnaaanctt	tnncnnccct	tncaaccccc	600
nacngaccn	cngcattcag	tngnaancng	aangactttc	atcacaactg	gncaanatnt	660
nggactttgg	cgccatgcnn	accctcttgg	nctttngaac	nnggttgcc	tttnggactt	720
tnncnctgng	ngataaccac	cn				742

&lt;210&gt; 326

&lt;211&gt; 747

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(747)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 326

atgntttaag	tatacgactc	actatagggc	gaattggggc	ctctagatgc	atgctcgagc	60
ggccgccagt	gtgatggata	tctgcagaat	tcgccctttc	gagcggccgc	ccgggcaggt	120
actgtatcat	tggcagatgt	gacgtcaccg	acaaccagag	tgaagtggcg	gacaaaactg	180
aggattacct	gtggctgaag	ttgaaccaag	tgtgttttga	cgacgatggc	accagctccc	240
cacaagacag	gctcactctc	tcacagttcc	agaagcagtt	gttgggaagac	tatggcgagt	300
cccactttac	ggtgaaccag	caacccttcc	tctacttcca	agtcctgttc	ctgacagcgc	360
agtttgaagc	agcagttgcc	tttcttttcc	gcatggagcg	gctgcgctgc	catgctgtcc	420
atgtagcact	ggtgctgttt	gagctgaagc	tgctttttaa	gtcctctgga	cagagtgtct	480
aactcctcag	ccacgaacct	ggtgacccct	cttgcttgcg	gcggctgaac	ttcgtgcggc	540
tcctcatgct	gtacctcggc	cgngaccacg	ctaagggcga	attccagcac	actggcggn	600
gttactagt	gatccgagct	cggtaccaaa	cttggcgtaa	tcatggncat	agctgggtcc	660
tgtgtgaaat	ggtatccgtt	acaatttcac	acaacatacg	agccgggaag	catnaagtgt	720
naaacctggg	gtgcctnatg	agtgacn				747

&lt;210&gt; 327



<211> 724  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(724)  
<223> n = A,T,C or G

<400> 327  
gtnatgaaac cnttctntng ngcatgctcg agcggccgcc agtgtgatgg atatctgcag 60  
aattcgccct ttcgagcggc cgcccgggca ggtactgtat cattggcaga tgtgacgtca 120  
ccgacaacca gagtgaagtg gcggacaaaa ctgaggatta cctgtggctg aagttgaacc 180  
aagtgtgttt tgacgacgat ggcaccagct ccccaacaaga caggctcact ctctcacagt 240  
tccagaagca gttgttggaa gactatggcg agtcccactt tacggtgaac cagcaaccct 300  
tcctctactt ccaagtcctg ttcttgacag cgcagtttga agcagcagtt gcctttcttt 360  
tccgcattgga gcggctgcgc tgccatgctg tccatgtagc actggtgctg tttgagctga 420  
agctgctttt aaagtcctct ggacagagtg ctcagctcct cagccacgag cctggtgacc 480  
ctccttgctt gcggcggtcg aacttcgtgc ggctcctcat gctgtacctc ggccgcgacc 540  
acgctaaggc cgaattccag cacactggcg gccgttacta gtggatccga gctcgggtacc 600  
aagcttggcg taatcatggt catagctgtt tcctgtgtga aattgtatcc gctcacaatt 660  
ncacacaaca tacgagccgg aagcataaag tgtaaaacct ggggtgccta atgagtgaac 720  
taan 724

<210> 328  
<211> 747  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(747)  
<223> n = A,T,C or G

<400> 328  
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gcccgccagt gtgatggata tctgcagaat tcgcccttag cgtggtcgcg gccgaggtac 120  
tttttttttt ttttttaaag acagagtctt gctctgtcac ccaggctgga gtgcagtggc 180  
acgatctcgg ctactgcaa gctctgcctc ccgggttcac gccattctcc tgcctcagcc 240  
tcccagtag ctgggactac aggtgcccgc caccatgccc ggctgatttc tttttgtatt 300  
tttagtagag acggagtttc accgtgttag ccaggatggt ctcatctcc tgacctcgtg 360  
atccgcccgc cttggcctcc aaagtgtctg gattacaggt gtgagctacc gcgcccgcc 420  
tattatcttg tactttctaa ctgagccctc tattttcttt attttaataa tatttctccc 480  
cacttgagaa tcacttgcta gttcttggtg ggaattcagt tgggcaatga taacttttat 540  
gggcaaaaac attctattat agtgaacaaa tgaaaataac agcgtatttt caatattttc 600  
ttattcctta aattccactc ttttaacact atgcttaacc acttaatgtg atgaaatatt 660  
cctaaaagtt aaatgactat taaagcatat attggtgcat gnataatta aagtaccgga 720  
tactctaaat aaaaatccac tgggtccn 747

<210> 329  
<211> 725  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(725)  
<223> n = A,T,C or G

<400> 329  
gcgtttcaan tgggccctct ngngcatgct cgagcggccg ccagtgtgat ggatatctgc 60  
agaattcgcc cttagcgtgg tcgcggccga ggtacttttt tttttttttt taaagacaga 120



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gtcttgctct gtcacccagg ctggagtgca gtggcacgat ctgggtcac tgcaagctct 180
gcctcccggg ttacgccat tctcctgcct cagcctccc agtagctggg actacaggtg 240
cccgccacca tgcccggctg atttcttttt gtatttttag tagagacgga gtttcaccgt 300
gtaggccagg atggtctcga tctcctgacc tcgtgatccg cccgccttgg cctccaaagt 360
gctgggatta caggtgtgag ctaccgcgcc cggcctatta tcttgtactt tctaactgag 420
ccctctattt tctttatttt aataatatatt ctccccactt gagaatcact tgtagttct 480
tggtaggaat tcagttgggc aatgataact tttatgggca aaaacattct attatagtg 540
acaaatgaaa ataacagcgt attttcaata ttttcttatt ccttaaattc cactctttta 600
acactatgct taaccactta atgtgatgaa atattcctaa aagttaaatg actattaaag 660
catatattgg tgcattgtata tattaagtag cccgatctct naataaaaaat ccactggtac 720
agata 725

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<210> 330
<211> 741
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(741)
<223> n = A,T,C or G

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<400> 330
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tttttttttt tttttttttt tttttttttt ggaagttaa tttactcaca gttcaacatg 180
gctggggagg cctcaggaaa tttaacaatta taacagaagg caaaggggaa gccagatacc 240
ttcttcacaa ggtggcagga aggagaagag ccgagagaag gcggaagaat cccttataaa 300
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caggattcaa tgacctncac ctggtctctc ccttgacacg tgaggattat ggggattaca 420
attccagatg agatttgggt ggggacacaa agccaaacca tatcaactgt gactaccttg 480
ggtaagggcc atccaggcag aggcaggggg aacattcttg gcaaaggcct tggggcaggg 540
gcctggtatg ttcagatagc ancaagtagg ccagantggc cggaggggag taagtgtggg 600
gaggccagtg ganagatgag ggtaggggag ggatggatca gatcatgcag ggccccgggg 660
gccacaggaa ngacctnagc atttactgca agtaangtgg gaaccatcga atgtctaagc 720
naggaggaaat ccctgtgact c 741

```

```

<210> 331
<211> 727
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(727)
<223> n = A,T,C or G

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```

<400> 331
gtnnnnncgan ngggccctct agatgcatgc tcgagcggcc gccagtgtga tggatatctg 60
cagaattcgc ccttagcgtg gtcgcggccg aggtactttt tttttttttt tttttttttt 120
ttttttggaa gtttaattta ctcacagttc aacatggctg gggaggcctc aggaaattta 180
caattataac agaaggcaaa gggaagcca gataccttct tcacaagggt gcaggaagga 240
gaagagccga gagaaggcgg aagaatccct tataaaacca tcagatctcg tgagaactca 300
cttgctatca ggagaacagc atgggggaac cgccccagg attcaatgac ctccacctgg 360
tcttccctt gacacgtgag gattatggg attacaattc cagatgagat ttgggtgggg 420
acacaaagcc aaaccatatt aactgtgact accttgggtt agggccatcc aggcagaggc 480
agggggaaca ttctgggcaa aggccttggg gcaggggcct ggtatgttca gatagcagca 540
agtaggccag antggccgga ggggagtaag tgtggggagg ccagtggaaa aatganggta 600
gggaaagggg tggatcagat catgcagggc cccgggggcc acangaagga cctnacattt 660
actgcaagta angtgggagc catcgaatgt tctaagcana ngangaatcc ctgngactca 720
ngtgttn 727

```



<210> 332  
<211> 734  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(734)  
<223> n = A,T,C or G

<400> 332  
gnntganagt atacgactca ctatagggag aattggggccc tctagatgca tgctcgagcg 60  
gccccccagt gtgatggata tctgcagaat tcgccctttc gagcggccgc ccgggcagggt 120  
accctttctcg cttttgccat tagccaagga tagaagctgc agtgggatta attttgatat 180  
aatctttcaa accagcttca tgtggcttcc cttttctttg ttcaagatga gggccaggag 240  
gggaaacatc acacctgccc taaaccctgt tcctggagggt cagcatttga tctgttgcaa 300  
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ggaaccatgc cttccggggg ggcccatctc ttctggccgt ccttgtctct gggccacttg 420  
gagtgtgtga taaatcagtc aagctgttga agtctcagga gtctctggta gcctgcagaa 480  
gtaagcctca tcatcagagc ctttccctcaa aactggagtc ccaaatgtca tcagggtttt 540  
nttttttttc aaccactaag aaccctctctg cttttaactc tagaatttgg gcttggacca 600  
gatctaactc cttgaatact ctgccctcta gaccttcacc ttaatggaan gtggatccca 660  
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nggtctgcct cten 734

<210> 333  
<211> 710  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(710)  
<223> n = A,T,C or G

<400> 333  
ntggggccctc tngngctgct cgagcggccg ccagtgatgat ggatatctgc agaattcgcc 60  
ctttcgagcg gccgcccggg caggtagcct tctcgctttt gccattagcc aaggatagaa 120  
gctgcagtg tattaatttt gatataatct ttcaaaccag cttcatgtgg cttccctttt 180  
ctttgttcaa gatgagggcc aggaggggaa acatcacacc tgccctaaac cctgttcctg 240  
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ccatgacttt gctcctcaca cttttggaac catgccttcc gggggggccc atctcttctg 360  
gccgtccttg tctctgggccc acttggagtg tgtgataaat cagtcaagct gttgaagtct 420  
caggagtctc tggtagcctg cagaagtaag cctcatcatc agagcctttc ctcaaaactg 480  
gagtcccaaa tgtcatcagg ttttgttttt ttttcagcca ctaagaacct ctctgctttt 540  
aactctagaa tttgggcttg gaccagatct aacatcttga atactctgcc ctctagagcc 600  
ttcagcctta atggaagggt ggatccaang anggtgtaat ggaacatcaa gccactcgcg 660  
gcagcatgga gctatactaa gcacccctta nggtctgcct cttcagcatt 710

<210> 334  
<211> 2051  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(2051)  
<223> n = A,T,C or G

<400> 334  
gcccttgccct cagcctaccc agtagctggt gatggccatc cttttataaa tgcaacgtcc 60  
ttcgttccctg ttaagtcatg ggggaggaag gccttttctc tcttcagtct aataatcaac 120



tgttcactat	tcacaatagc	aacatcatgg	gctgaaccta	tgtgtccatc	aacagatgat	180
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atcacatctt	ttgcagcaat	atggatggaa	ctggaagccc	ttatcgtaag	tgaaatgact	300
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aaatctaata	aagacatggg	tacttttatt	tcaaaacact	catatgttgc	aaaaaacaca	420
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gatagactag	ctcttcagat	gtttttctac	cagttcagag	atgggttaat	gactagttcc	660
aatggggaaa	aagcaagatg	gattcacaaa	ccaagtaatt	ttaaacaagg	acactttttt	720
ttttttttgc	aacacaatat	acatcacagt	gaaatgtgta	atccttgcaa	attgcaagtt	780
gaaagaatta	aattcagagg	aggggagaga	aagagtactc	agtagggaact	gagcactaaa	840
tgcttatttt	aaaagaaatg	taaagagcag	aaagcaattc	aggctaccct	gccttttgtg	900
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aaatggaagg	acagccagat	ttctcctttg	ctctctgctc	attctctctg	aagtctaggt	1260
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gattgtcaga	cttcaaacgt	aacagcagaa	ccaccagaag	gtcctataaa	tgcagtagtg	1620
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&lt;210&gt; 335

&lt;211&gt; 1312

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 335

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 <212> DNA  
 <213> Homo sapien

<400> 336  
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 <212> DNA  
 <213> Homo sapien

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&lt;210&gt; 339

&lt;211&gt; 1815

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 339

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